

5786158

O.G. FIG -	
CLASS	SUBCLASS
435	7.23
APPROVED BY	DRAFTSMAN

GAATTCGGAG GAATTATTCA AACATAAAC ACAATAAACA ATTTGAGTAG TTGCCGCACA	60
CACACACACA CACAGCCCGT GGATTATTAC ACTAAAAGCG ACACTCAATC CAAAAAATCA	120
GCAACAAAAA CATCAATAAA C ATG CAT TGG ATT AAA TGT TTA TTA ACA GCA	171
Met His Trp Ile Lys Cys Leu Leu Thr Ala	
1 5 10	
TTC ATT TGC TTC ACA GTC ATC GTG CAG GTT CAC AGT TCC GGC AGC TTT	219
Phe Ile Cys Phe Thr Val Ile Val Gln Val His Ser Ser Gly Ser Phe	
15 20 25	
GAG TTG CGC CTG AAG TAC TTC AGC AAC GAT CAC GGG CGG GAC AAC GAG	267
Glu Leu Arg Leu Lys Tyr Phe Ser Asn Asp His Gly Arg Asp Asn Glu	
30 35 40	
GGT CGC TGC TGC AGC GGG GAG TCG GAC GGA GCG ACG GGC AAG TGC CTG	315
Gly Arg Cys Cys Ser Gly Glu Ser Asp Gly Ala Thr Gly Lys Cys Leu	
45 50 55	
GGC AGC TGC AAG ACG CGG TTT CGC GTC TGC CTA AAG CAC TAC CAG GCC	363
Gly Ser Cys Lys Thr Arg Phe Arg Val Cys Leu Lys His Tyr Gln Ala	
60 65 70	
ACC ATC GAC ACC ACC TCC CAG TGC ACC TAC GGG GAC GTG ATC ACG CCC	411
Thr Ile Asp Thr Thr Ser Gln Cys Thr Tyr Gly Asp Val Ile Thr Pro	
75 80 85 90	
ATT CTC GGC GAG AAC TCG GTC AAT CTG ACC GAC GCC CAG CGC TTC CAG	459
Ile Leu Gly Glu Asn Ser Val Asn Leu Thr Asp Ala Gln Arg Phe Gln	
95 100 105	
AAC AAG GGC TTC ACG AAT CCC ATC CAG TTC CCC TTC TCG TTC TCA TGG	507
Asn Lys Gly Phe Thr Asn Pro Ile Gln Phe Pro Phe Ser Phe Ser Trp	
110 115 120	

FIG.1A

O.G. FIG.	CLASS	
	SUBCLASS	
APPROVED	BY	
DRAFTSMAN		

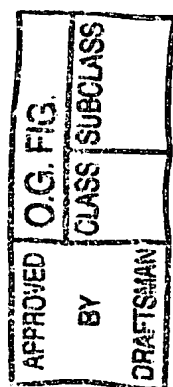
CCG GGT ACC TTC TCG CTG ATC GTC GAG GCC TGG CAT GAT ACG AAC AAT	555
Pro Gly Thr Phe Ser Leu Ile Val Glu Ala Trp His Asp Thr Asn Asn	
125 130 135	
AGC GGC AAT GCG CGA ACC AAC AAG CTC CTC ATC CAG CGA CTC TTG GTG	603
Ser Gly Asn Ala Arg Thr Asn Lys Leu Leu Ile Gln Arg Leu Leu Val	
140 145 150	
CAG CAG GTA CTG GAG GTG TCC TCC GAA TGG AAG ACG AAC AAG TCG GAA	651
Gln Gln Val Leu Glu Val Ser Ser Glu Trp Lys Thr Asn Lys Ser Glu	
155 160 165 170	
TCG CAG TAC ACG TCG CTG GAG TAC GAT TTC CGT GTC ACC TGC GAT CTC	699
Ser Gln Tyr Thr Ser Leu Glu Tyr Asp Phe Arg Val Thr Cys Asp Leu	
175 180 185	
AAC TAC TAC GGA TCC GGC TGT GCC AAG TTC TGC CCG CCC CGC GAC GAT	747
Asn Tyr Tyr Gly Ser Gly Cys Ala Lys Phe Cys Arg Pro Arg Asp Asp	
190 195 200	
TCA TTT GGA CAC TCG ACT TGC TCG GAG ACG GGC GAA ATT ATC TGT TTG	795
Ser Phe Gly His Ser Thr Cys Ser Glu Thr Gly Glu Ile Ile Cys Leu	
205 210 215	
ACC GGA TGG CAG GGC GAT TAC TGT CAC ATA CCC AAA TGC GCC AAA GGC	843
Thr Gly Trp Gln Gly Asp Tyr Cys His Ile Pro Lys Cys Ala Lys Gly	
220 225 230	
TGT GAA CAT GGA CAT TGC GAC AAA CCC AAT CAA TGC GTT TGC CAA CTG	891
Cys Glu His Gly His Cys Asp Lys Pro Asn Gln Cys Val Cys Gln Leu	
235 240 245 250	
GGC TGG AAG GGA GCC TTG TGC AAC GAG TGC GTT CTG GAA CCG AAC TGC	939
Gly Trp Lys Gly Ala Leu Cys Asn Glu Cys Val Leu Glu Pro Asn Cys	
255 260 265	

FIG.1B

APPROVED	CLASS	SUBCLASS
	BY DRAFTSMAN	

ATC CAT GGC ACC TGC AAC AAA CCC TGG ACT TGC ATC TGC AAC GAG GGT Ile His Gly Thr Cys Asn Lys Pro Trp Thr Cys Ile Cys Asn Glu Gly	987
270 275 280	
TGG GGA GGC TTG TAC TGC AAC CAG GAT CTG AAC TAC TGC ACC AAC CAC Trp Gly Gly Leu Tyr Cys Asn Gln Asp Leu Asn Tyr Cys Thr Asn His	1035
285 290 295	
AGA CCC TGC AAG AAT GGC GGA ACC TGC TTC AAC ACC GGC GAG GGA TTG Arg Pro Cys Lys Asn Gly Gly Thr Cys Phe Asn Thr Gly Glu Gly Leu	1083
300 305 310	
TAC ACA TGC AAA TGC GCT CCA GGA TAC AGT GGT GAT GAT TGC GAA AAT Tyr Thr Cys Lys Cys Ala Pro Gly Tyr Ser Gly Asp Asp Cys Glu Asn	1131
315 320 325 330	
GAG ATC TAC TCC TGC GAT GCC GAT GTC AAT CCC TGC CAG AAT GGT GGT Glu Ile Tyr Ser Cys Asp Ala Asp Val Asn Pro Cys Gln Asn Gly Gly	1179
335 340 345	
ACC TGC ATC GAT GAG CCG CAC ACA AAA ACC GGC TAC AAG TGT CAT TGC Thr Cys Ile Asp Glu Pro His Thr Lys Thr Gly Tyr Lys Cys His Cys	1227
350 355 360	
GCC AAC GGC TGG AGC GGA AAG ATG TGC GAG GAG AAA GTG CTC ACG TGT Ala Asn Gly Trp Ser Gly Lys Met Cys Glu Glu Lys Val Leu Thr Cys	1275
365 370 375	
TCG GAC AAA CCC TGT CAT CAG GGA ATC TGC CGC AAC GTT CGT CCT GGC Ser Asp Lys Pro Cys His Gln Gly Ile Cys Arg Asn Val Arg Pro Gly	1323
380 385 390	
TTG GGA AGC AAG GGT CAG GGC TAC CAG TGC GAA TGT CCC ATT GGC TAC Leu Gly Ser Lys Gly Gln Gly Tyr Gln Cys Glu Cys Pro Ile Gly Tyr	1371
395 400 405 410	

FIG.1C



AGC GGA CCC AAC TGC GAT CTC CAG CTG GAC AAC TGC AGT CCG AAT CCA	1419
Ser Gly Pro Asn Cys Asp Leu Gln Leu Asp Asn Cys Ser Pro Asn Pro	
415 420 425	
TGC ATA AAC GGT GGA AGC TGT CAG CCG AGC GGA AAG TGT ATT TGC CCA	1467
Cys Ile Asn Gly Gly Ser Cys Gln Pro Ser Gly Lys Cys Ile Cys Pro	
430 435 440	
GCG GGA TTT TCG GGA ACG AGA TGC GAG ACC AAC ATT GAC GAT TGT CTT	1515
Ala Gly Phe Ser Gly Thr Arg Cys Glu Thr Asn Ile Asp Asp Cys Leu	
445 450 455	
GGC CAC CAG TGC GAG AAC GGA GGC ACC TGC ATA GAT ATG GTC AAC CAA	1563
Gly His Gln Cys Glu Asn Gly Gly Thr Cys Ile Asp Met Val Asn Gln	
460 465 470	
TAT CGC TGC CAA TGC GTT CCC GGT TTC CAT GGC ACC CAC TGT AGT AGC	1611
Tyr Arg Cys Gln Cys Val Pro Gly Phe His Gly Thr His Cys Ser Ser	
475 480 485 490	
AAA GTT GAC TTG TGC CTC ATC AGA CCG TGT GCC AAT GGA GGA ACC TGC	1659
Lys Val Asp Leu Cys Leu Ile Arg Pro Cys Ala Asn Gly Gly Thr Cys	
495 500 505	
TTG AAT CTC AAC AAC GAT TAC CAG TGC ACC TGT CGT GCG GGA TTT ACT	1707
Leu Asn Leu Asn Asn Asp Tyr Gln Cys Thr Cys Arg Ala Gly Phe Thr	
510 515 520	
GGC AAG GAT TGC TCT GTG GAC ATC GAT GAG TGC AGC AGT GGA CCC TGT	1755
Gly Lys Asp Cys Ser Val Asp Ile Asp Glu Cys Ser Ser Gly Pro Cys	
525 530 535	
CAT AAC GGC GGC ACT TGC ATG AAC CGC GTC AAT TCG TTC GAA TGC GTG	1803
His Asn Gly Gly Thr Cys Met Asn Arg Val Asn Ser Phe Glu Cys Val	
540 545 550	

FIG.1D

TGT	GCC	AAT	GGT	TTC	AGG	GGC	AAG	CAG	TGC	GAT	GAG	GAG	TCC	TAC	GAT	1851
Cys	Ala	Asn	Gly	Phe	Arg	Gly	Lys	Gln	Cys	Asp	Glu	Glu	Ser	Tyr	Asp	
555					560					565					570	

TCG	GTG	ACC	TTC	GAT	GCC	CAC	CAA	TAT	GGA	GCG	ACC	ACA	CAA	GCG	AGA	1899
Ser	Val	Thr	Phe	Asp	Ala	His	Gln	Tyr	Gly	Ala	Thr	Thr	Gln	Ala	Arg	
			575						580					585		

GCC	GAT	GGT	TTG	ACC	AAT	GCC	CAG	GTA	GTC	CTA	ATT	GCT	GTT	TTC	TCC	1947
Ala	Asp	Gly	Leu	Thr	Asn	Ala	Gln	Val	Val	Leu	Ile	Ala	Val	Phe	Ser	
		590						595					600			

GTT	GCG	ATG	CCT	TTG	GTG	GCG	GTT	ATT	GCG	GCG	TGC	GTG	GTC	TTC	TGC	1995
Val	Ala	Met	Pro	Leu	Val	Ala	Val	Ile	Ala	Ala	Cys	Val	Val	Phe	Cys	
		605					610					615				

ATG	AAG	CGC	AAG	CGT	AAG	CGT	GCT	CAG	GAA	AAG	GAC	GAC	GCG	GAG	GCC	2043
Met	Lys	Arg	Lys	Arg	Lys	Arg	Ala	Gln	Glu	Lys	Asp	Asp	Ala	Glu	Ala	
	620					625					630					

AGG	AAG	CAG	AAC	GAA	CAG	AAT	GCG	GTG	GCC	ACA	ATG	CAT	CAC	AAT	GGC	2091
Arg	Lys	Gln	Asn	Glu	Gln	Asn	Ala	Val	Ala	Thr	Met	His	His	Asn	Gly	
635					640					645					650	

AGT	GGG	GTG	GGT	GTA	GCT	TTG	GCT	TCA	GCC	TCT	CTG	GGC	GGC	AAA	ACT	2139
Ser	Gly	Val	Gly	Val	Ala	Leu	Ala	Ser	Ala	Ser	Leu	Gly	Gly	Lys	Thr	
				655					660					665		

GGC	AGC	AAC	AGC	GGT	CTC	ACC	TTC	GAT	GGC	GGC	AAC	CCG	AAT	ATC	ATC	2187
Gly	Ser	Asn	Ser	Gly	Leu	Thr	Phe	Asp	Gly	Gly	Asn	Pro	Asn	Ile	Ile	
			670					675					680			

AAA	AAC	ACC	TGG	GAC	AAG	TCG	GTC	AAC	AAC	ATT	TGT	GCC	TCA	GCA	GCA	2235
Lys	Asn	Thr	Trp	Asp	Lys	Ser	Val	Asn	Asn	Ile	Cys	Ala	Ser	Ala	Ala	
		685					690					695				

FIG.1E

GCA GCG GCG GCG GCG GCA GCA GCG GCG GAC GAG TGT CTC ATG TAC GGC	2283
Ala Ala Ala Ala Ala Ala Ala Ala Ala Asp Glu Cys Leu Met Tyr Gly	
700 705 710	

GGA TAT GTG GCC TCG GTG GCG GAT AAC AAC AAT GCC AAC TCA GAC TTT	2331
Gly Tyr Val Ala Ser Val Ala Asp Asn Asn Asn Ala Asn Ser Asp Phe	
715 720 725 730	

TGT GTG GCT CCG CTA CAA AGA GCC AAG TCG CAA AAG CAA CTC AAC ACC	2379
Cys Val Ala Pro Leu Gln Arg Ala Lys Ser Gln Lys Gln Leu Asn Thr	
735 740 745	

GAT CCC ACG CTC ATG CAC CGC GGT TCG CCG GCA GGC AGC TCA GCC AAG	2427
Asp Pro Thr Leu Met His Arg Gly Ser Pro Ala Gly Ser Ser Ala Lys	
750 755 760	

GGA GCG TCT GGC GGA GGA CCG GGA GCG GCG GAG GGC AAG AGG ATC TCT	2475
Gly Ala Ser Gly Gly Gly Pro Gly Ala Ala Glu Gly Lys Arg Ile Ser	
765 770 775	

GTT TTA GGC GAG GGT TCC TAC TGT AGC CAG CGT TGG CCC TCG TTG GCG	2523
Val Leu Gly Glu Gly Ser Tyr Cys Ser Gln Arg Trp Pro Ser Leu Ala	
780 785 790	

GCG GCG GGA GTG GCC GGA GCC TGT TCA TCC CAG CTA ATG GCT GCA GCT	2571
Ala Ala Gly Val Ala Gly Ala Cys Ser Ser Gln Leu Met Ala Ala Ala	
795 800 805 810	

TCG GCA GCG GGC AGC GGA GCG GGG ACG GCG CAA CAG CAG CGA TCC GTG	2619
Ser Ala Ala Gly Ser Gly Ala Gly Thr Ala Gln Gln Gln Arg Ser Val	
815 820 825	

GTC TGC GGC ACT CCG CAT ATG TAACTCCAAA AATCCGGAAG GGCTCCTGGT	2670
Val Cys Gly Thr Pro His Met	
830	

AAATCCGGAG AAATCCGCAT GGAGGAGCTG ACAGCACATA CACAAAGAAA AGACTGGGTT	2730
GGGTTCAAAA TGTGAGAGAG ACGCCAAAAT GTTGTTGTTG ATTGAAGCAG TTAGTCGTC	2790
ACGAAAAATG AAAAATCTGT AACAGGCATA ACTCGTAAAC TCCCTAAAAA ATTTGTATAG	2850
TAATTAGCAA AGCTGTGACC CAGCCGTTTC GATCCCGAAT TC	2892

FIG.1F

	SP	EGF	N	TM	cdc10	PA	opa	% AGGREGATION WITH DI	WITH Ser
1.pMINMg								40	21
2.ΔSph	1	32						0	nt
3.ΔCla	7	31						0	nt
4.ΔEGF(7-17)	7	17						0	nt
5.ΔEGF(9-26)	9	26						0	nt
6.ΔEGF(17-30)	17	31						22	nt
7.ΔEGF(7-9)	7 9							20	14
8.ΔEGF(9-17)	9	17						0	0
9.ΔEGF(17-26)	17	26						10	8
10.ΔEGF(26-30)	26	31						5	7
11.ΔEGF(9-30)	9	31						0	nt
12.ΔEGF(7-26)	7	26						0	nt
13.ΔCla+EGF(9-17)	7 9 17	31						35	20
14.ΔCla+EGF(17-26)	7	17 26 31						0	nt
15.SPLIT	14							42	nt
16.ΔCla+EGF(9-13)	7 9 13	31						47	25

FIG.2A

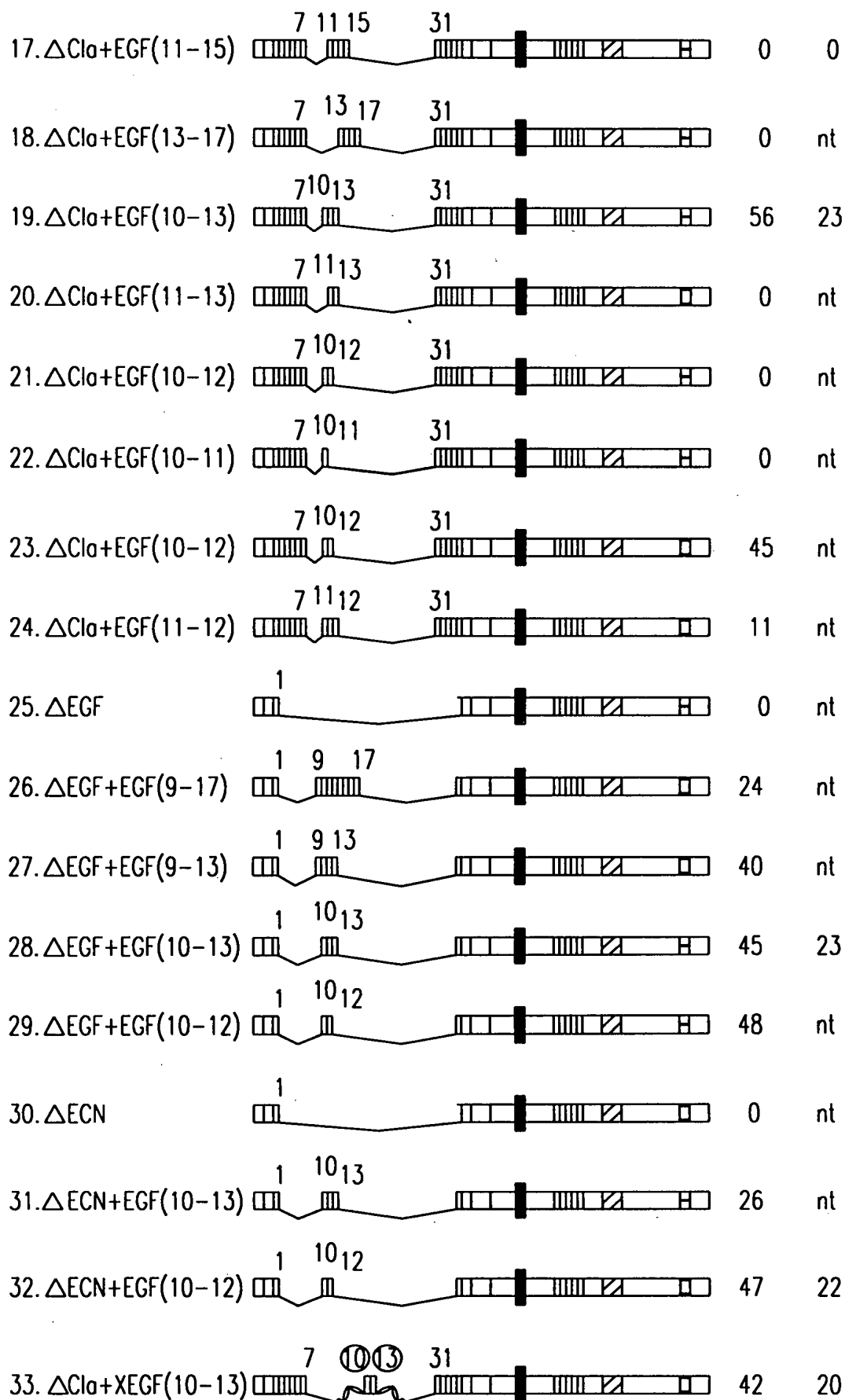
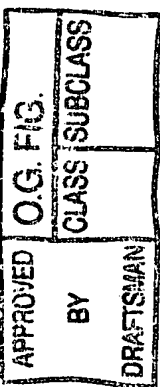


FIG.2B



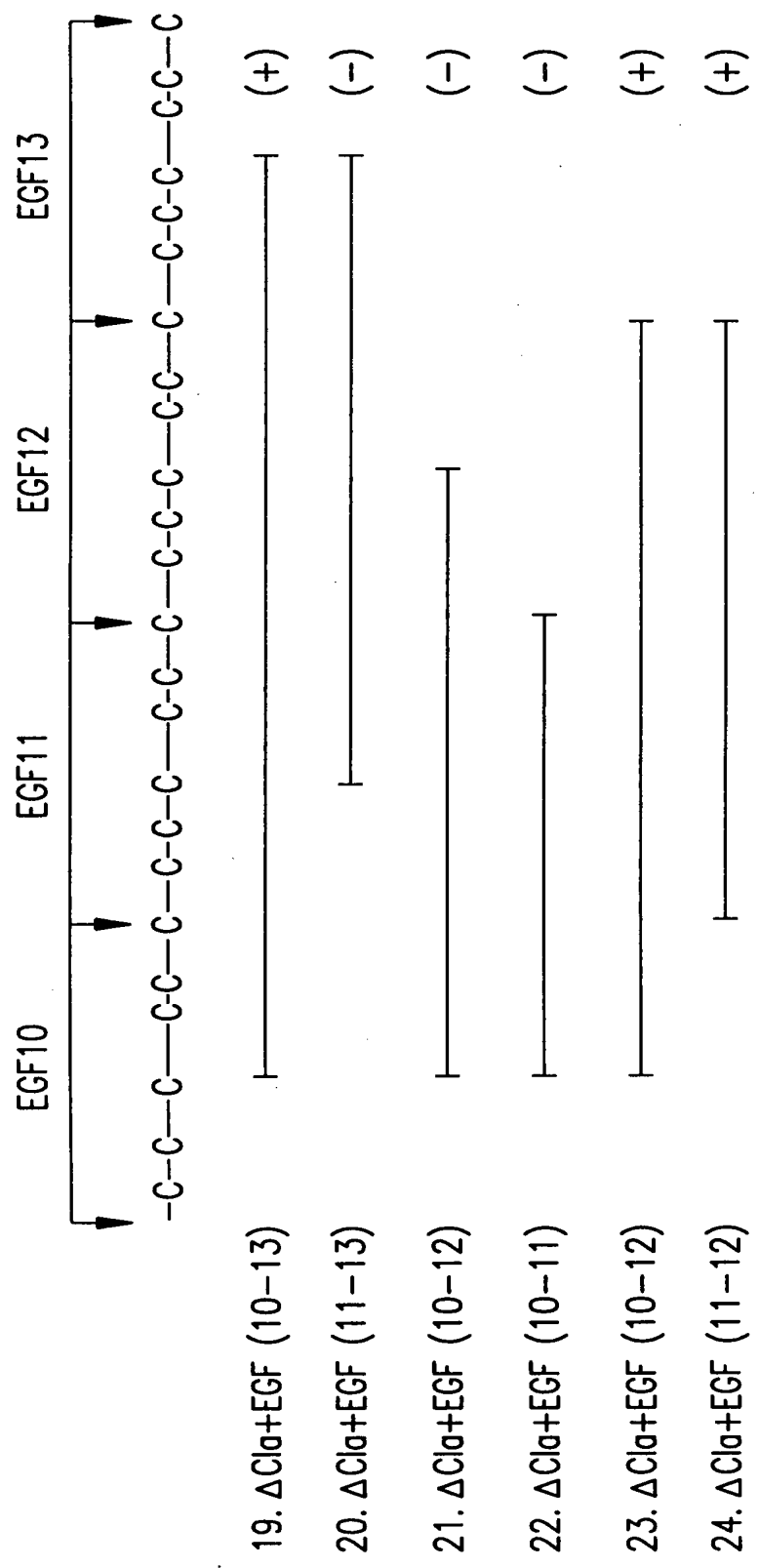


FIG.3

APPROVED		O.G. FIG.	
BY	CLASS	SUBCLASS	
DRAFTSMAN			

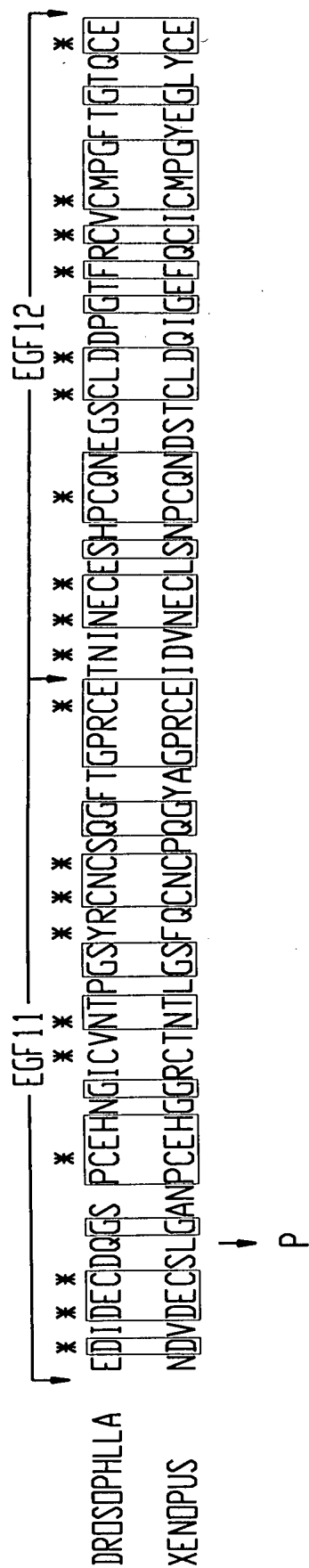


FIG.4

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

1 CCGAGTCGAGCGCGGTGCTTCGAGCGGTGATGAGCCCTTTTCGTCAACGCTAAGATC  
 121 AAGCACATAAGGTCCATATAATAATAATAATTTGTGTGATAACACATTAT  
 241 GGCCGTTATTCAGCTATCCAGAGCAAGTGTAGTGGCAAAATAGAAACAACAAGGCA  
 361 CAATCCAGAGTGAATCCGAACAACACTCCATCTAGATCGCCAACCGCATCACGCTCGCA

481 TCGTCGTTGGAGTCAACAATAGAAATCAGCAGACAGCTGGGAATGTCCAAGAACGCGG  
 SerSerLeuGluSerThrIleGluSerAlaAspSerLeuGlyMetSerLysLysThrAla

601 CGCGATTGTCGATCATTAAAGTCIGCCTGCAACTTAATIGCTTTAATTTAATACTGTTA  
ArgAspCysArgSerLeuLysSerAlaCysAsnLeuIleAlaLeuIleLeuLeu  
 -----

721 AACAGCCATCTACTCAACGGCTATTGCTGGGGATGCCAGCGGAACCTAGGGCCACCAAG  
 AsnSerHisLeuLeuAsnGlyTyrCysCysGlyMetProAlaGluLeuArgAlaThrLys

841 ACCGAGCAGGGTGCCAGCATATCCACGGGCTGTTCGTTGGCAACGCCACCACCAAGATA  
ThrGluGlnGlyAlaSerIleSerThrGlyCysSerPheGlyAsnAlaThrThrLysIle  
 #2

961 ACGTTTCGTTGGACGAAGTCGTTACGCTGATACTGCAGGCGTTGGATAGTACACACA  
 ThrPheArgTrpThrLysSerPheThrLeuIleLeuGlnAlaLeuAspMetTyrAsnThr

1081 TCGCCGGAGTGGAGACCGCTGGACCACATCGGGCGGAACGGCGGATCACCTACCGTGTC  
SerProGluTrpLysThrLeuAspHisIleGlyArgAsnAlaArgIleThrTyrArgVal  
 #3

1201 GACGATCAGTTCGGTCACCTACGCCCTCGGGCTCCGAGGGTCAGAAGCTCTGCCIGAAATGGC  
AspAspGlnPheGlyHisTyrAlaCysGlySerGluGlyGlnLysLeuCysLeuAsnGly

FIG. 5A

APPROVED	O.G. FIG
BY	CLASS SUBCLASS
DRAFTSMAN	

TACAAACATCAGCGCCTATCAAGTGGAAAGTGTCAGGTGGAACAAACAAACGAGAG  
CCAAACAAACCAAAACGAAAGGCAAGTGGAGAAATGATACAGCATCCAGAGTAC  
CCAAAATCTGCATACATGGCTAATTAGGCTGCCAGCGAATTTACATTTGTGTGGTGC  
AACGCCCCCAGGAATGTACAAAATGTTTAGGAACATTTTCGGCGAAACACGCTACGTCG  
MetPheArgLysHisPheArgLysProAlaThrSer 13  
ACAAAAGGCAGCGTCCGAGGCATCGGGTACCCAAAATCGCGACCCCTGCCATCGACGATC  
ThrLysArgGlnArgProArgHisArgValProLysIleAlaThrLeuProSerThrIle 53  
GTCCATAGATATCCGCAGCTGGTAACCTCGAGCTGGAATATTAGAAATCTCAAATACC  
ValHisLysIleSerAlaAlaGlyAsnPheGluLeuGluIleSerAsnThr 93  
-----#1  
ACGATAGGCTGCTCGCCATGCACGACGGCATTCGGGCTGTGCCGTGAAGGAGTACCAGACC  
ThrIleGlyCysSerProCysThrThrAlaPheArgLeuCysLeuLysGluTyrGlnThr 133  
CTGGGTGGCTCCAGCTTTGTGCTCAGCGATCCGGGTGTGGAGCCATTGTGCTGCCCTTT  
LeuGlyGlySerSerPheValLeuSerAspProGlyValGlyAlaIleValLeuProPhe 173  
TCCTATCCAGATGCGGAGAGGTTAATTGAGGAAACATCATCTCGGGCGTGATGCTCCG  
SerTyrProAspAlaGluArgLeuIleGluGluThrSerTyrSerGlyValIleLeuPro 213  
CGGGTGCAATGCGCGGTACCTACTACACACGACCTGCACGACCTTGTCCGTCCGCGG  
ArgValGlnCysAlaValThrTyrTyrAsnThrThrCysThrThrPheCysArgProArg 253  
TGGCAGGGCGTCAACTGCGAGGAGGCCATATGCAAGGGGGCTGCGACCCCGTCCACGGC  
TrpGlnGlyValAsnCysGluGluAlaIleCysLysAlaGlyCysAspProValHisGly 293

FIG.5B

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

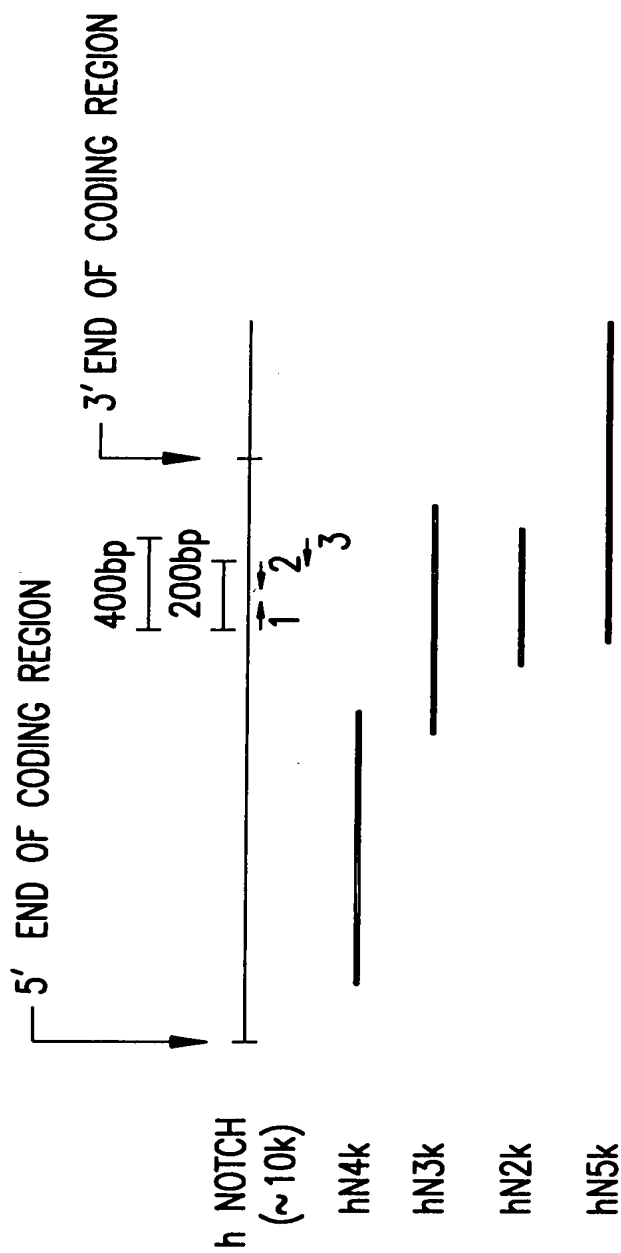
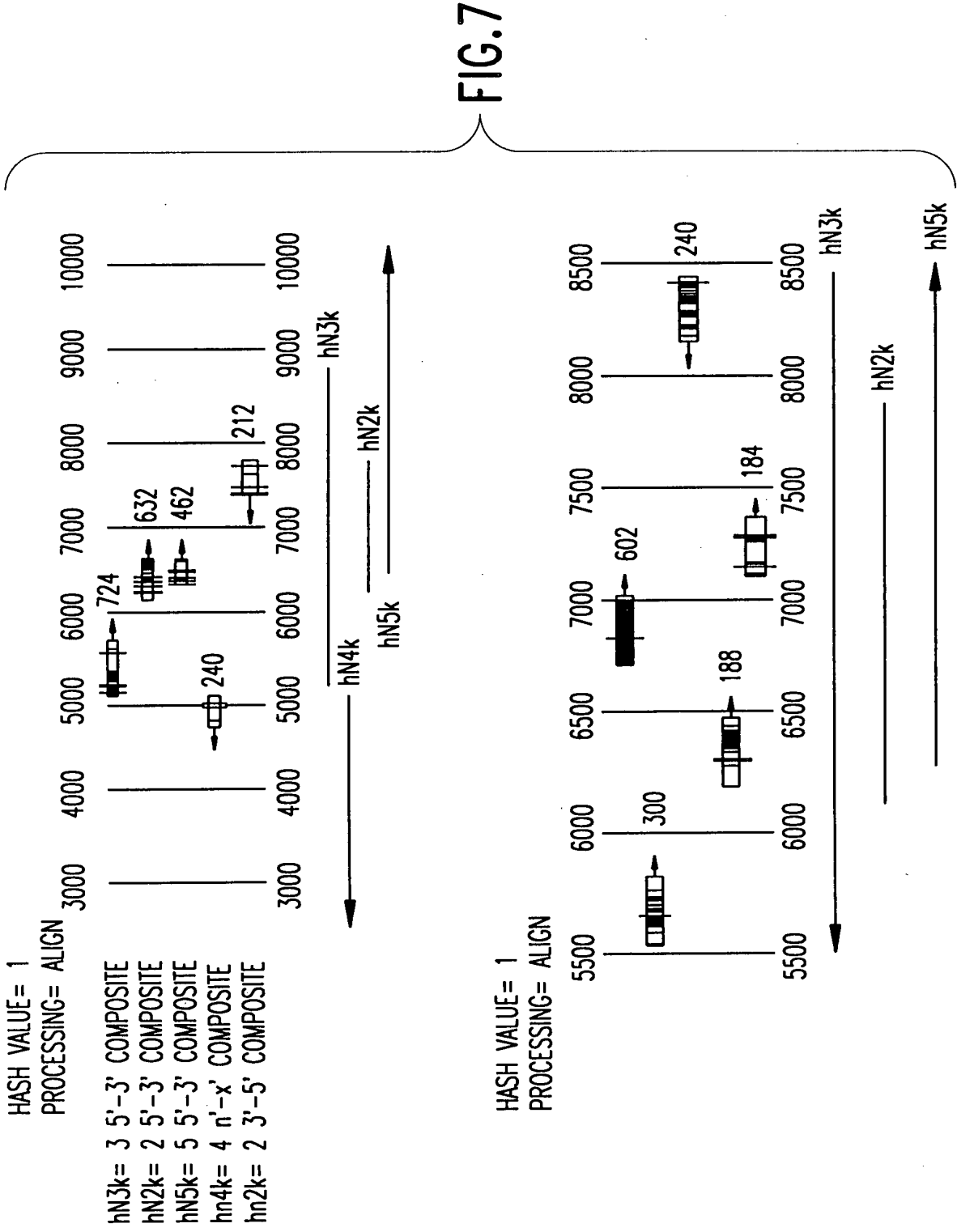


FIG.6

APPROVED	O.G. FIG
BY	CLASS SUBCLASS
DRAFTSMAN	



APPROVED	O.G. FIG.
BY	CLASS (SUBCLASS)
DRAFTSMAN	

1 GAATTCGCT GGGAGAATGG TCTGAGCTAC CTGCCCCTCC TGCTGGGGCA TCAATGGCAA  
 61 GTGGGGAAAG CCACACTGGG CAAACGGGCC AGGCCATTTC TGGAAATGTGG TACATGGTGG  
 121 GCAGGGGGCC CGCAACAGCT GGAGGGCAGG TGGACTGAGG CTGGGGATCC CCCGCTGGTT  
 181 GGGCAATACT GCCTTTACCC ATGAGCTGGA AAGTCACAAT GGGGGGCAAG GGCTCCCGAG  
 241 GGTGGTTATG TGCTTCCTTC AGGTGGC

FIG.8A

1 GAATTCCTTC CATTATACGT GACTTTTCTG AACTGTAGC CACCCTAGTG TCTCTAACTC  
 61 CCTCTGGAGT TTGTCAGCTT TGGTCTTTTC AAAGAGCAGG CTCTCTTCAA GCTCCTTAAT  
 121 GCGGGCATGC TCCAGTTTGG TCTGCGTCTC AAGATCACCT TTGGTAATTG ATTCTTCTTC  
 181 AACCCGGAAC TGAAGGCTGG CTCTCACCTT CTAGGCAGAG CAGGAATTCC GAGGTGGATG  
 241 TGTTAGATGT GAATGTCCGT GGCCAGATG GCTGCACCCC ATTGATGTTG GCTTCTCTCC  
 301 GAGGAGGCAG CTCAGATTTG AGTGATGAAG ATGAAGATGC AGAGGACTGT TCTGCTAACA  
 361 TCATCACAGA CTTGGTCTAC CAGGGTGCCA GCCTCCAGAC CAGACAGACC GGACTGGTGA  
 421 GATGGCCCTG CACCTTGCGC CCCGCTACTC ACGGGCTGAT GCTGCCAAGC GTCTCCTGGA  
 481 TGCAGGTGCA GATGCCAATG CCCAGGACAA CATGGGCCGC TGTCCACTCC ATGCTGCAGT  
 541 GGCACGTGAT GCCAAGGTGT ATTCAGATCT GTTA

FIG.8B

1 TCCAGATTCT GATTCGCAAC CGAGTAACTG ATCTAGATGC CAGGATGAAT GATGGTACTA  
 61 CACCCCTGAT CCTGGCTGCC CGCCTGGCTG TGGAGGGAAT GGTGGCAGAA CTGATCAACT  
 121 GCCAAGCGGA TGTGAATGCA GTGGATGACC ATGGAAAATC TGCTCTTCAC TGGGCAGCTG  
 181 CTGTCAATAA TGTGGAGGCA ACTCTTTTGT TGTGAAAAA TGGGGCCAAC CGAGACATGC  
 241 AGGACAACAA GGAAGAGACA CCTCTGTTTC TTGCTGCCCCG GGAGGAGCTA TAAGC

FIG.8C

APPROVED	O.G. FIG.	
	CLASS	SUBCLASS
BY	DRAFTSMAN	

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1  GAATTCCATT CAGGAGGAAA GGGTGGGGAG AGAAGCAGGC ACCCACTTTC CCGTGGCTGG
61 ACTCGTTCCC AGGTGGCTCC ACCGGCAGCT GTGACCGCCG CAGGTGGGGG CGGAGTGCCA
121 TTCAGAAAAT TCCAGAAAAG CCCTACCCCA ACTCGGACGG CAACGTCACA CCCGTGGGTA
181 GCAACTGGCA CACAAACAGC CAGCGTGTCT GGGGCACGGG GGGATGGCAC CCCCTGCAGG
241 CAGAGCTG

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FIG.9A

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1  CTAAAGGGAA CAAAAGCNGG AGCTCCACCG CGGGCGGCNC NGCTCTAGAA CTAGTGGANN
61 NCCCGGGCTG CAGGAATTCC GCGGACTGG GCTCGGGCTC AGAGCGGGCG TGTGGAAGAG
121 ATTCTAGACC GGGAGAACAA GCGAATGGCT GACAGCTGGC CTCCAAAGTC ACCAGGCTCA
181 AATCGCTCGC CCTGGACATC GAGGGATGCA GAGGATCAGA ACCGGTACCT GGATGGCATG
241 ACTCGGATTT ACAAGCATGA CCAGCCTGCT TACAGGGAGC GTGANNTTTT CACATGCAGT
301 CGACAGACAC GAGCTCTATG CAT

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FIG.9B



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

10	20	30	40
* * * *	* * * *	* * * *	* * * *
TGC CAG GAG GAC GCG GGC AAC AAG GTC TGC AGC CTG CAG TGC AAC AAC			
C Q E D A G N K V C S L Q C N N>			
50	60	70	80
* * * *	* * * *	* * * *	* * * *
CAC GCG TGC GGC TGG GAC GGC GGT GAC TGC TCC CTC AAC TTC AAT GAC			
H A C G W D G G D C S L N F N D>			
100	110	120	130
* * * *	* * * *	* * * *	* * * *
CCC TGG AAG AAC TGC ACG CAG TCT CTG CAG TGC TGG AAG TAC TTC AGT			
P W K N C T Q S L Q C W K Y F S>			
150	160	170	180
* * * *	* * * *	* * * *	* * * *
GAC GGC CAC TGT GAC AGC CAG TGC AAC TCA GCC GGC TGC CTC TTC GAC			
D G H C C D S Q C N S A G C L F D>			

FIG. 10A

APPROVED	O.G. FIG
BY	CLASS SURCLARE
DRAFTSMAN	

200	210	220	230	240
* * *	* * *	* * *	* * *	* * *
GGC TTT GAC TGC CAG CGT GCG GAA GGC CAG TGC AAC CCC CTG TAC GAC				
G F D C Q R A E G Q C N P L Y D> -				
250	260	270	280	
* * *	* * *	* * *	* * *	
CAG TAC TGC AAG GAC CAC TTC AGC GAC GGC CAC TGC GAC CAG GGC TGC				
Q Y C K D H F S D G H C D Q G C>				
290	300	310	320	330
* * *	* * *	* * *	* * *	* * *
AAC AGC GCG GAG TGC GAG TGG GAC GGC CTG GAC TGT GCG GAG CAT GTA				
N S A E C E W D G L D C A E H V>				
340	350	360	370	380
* * *	* * *	* * *	* * *	* * *
CCC GAG AGG CTG GCG GCC GGC ACG CTG GTG GTG GTG CTG ATG CCG				
P E R L A A G T L V V V V L M P>				

FIG.10B

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

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390      *      *      *      *      *      *      *      *      *      *
      CCG GAG CAG CTG CGC AAC AGC TCC TTC CAC TTC CTG CGG GAG CTC AGC
      P   E   Q   L   R   N   S   S   F   H   F   L   R   E   L   S>

      440      *      *      *      *      *      *      *      *      *      *
      *      *      *      *      *      *      *      *      *      *
      CGC GTG CTG CAC ACC AAC GTG GTC TTC AAG CGT GAC GCA CAC GGC CAG
      R   V   L   H   T   N   V   V   F   K   R   D   A   H   G   Q>

      490      *      *      *      *      *      *      *      *      *      *
      *      *      *      *      *      *      *      *      *      *
      CAG ATG ATC TTC CCC TAC TAC GGC CGC GAG GAG CTG CGC AAG CAC
      Q   M   I   F   P   Y   Y   G   R   E   E   L   R   K   H>

      530      *      *      *      *      *      *      *      *      *      *
      *      *      *      *      *      *      *      *      *      *
      CCC ATC AAG CGT GCC GAG GGC TGG GCC GCA CCT GAC GCC CTG CTG
      P   I   K   R   A   A   E   G   W   A   A   P   D   A   L   L>

```

FIG. 10C

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

580		590		600		610		620
*	*	*	*	*	*	*	*	*
GGC CAG GTG AAG GCC TCG CTG CTC CCT GGT GGC AGC GAG GGT GGG CCG								
G Q V K A S L L P G G S E G G R>								
630		640		650		660		670
*	*	*	*	*	*	*	*	*
CGG CGG AGG GAG CTG GAC CCC ATG GAC GTC CGC GGC TCC ATC GTC TAC								
R R E L D P M D V R G S I V Y>								
680		690		700		710		720
*	*	*	*	*	*	*	*	*
CTG GAG ATT GAC AAC CGG CAG TGT GTG CAG GCC TCC TCG CAG TGC TTC								
L E I D N R Q C V Q A S S Q C F>								
730		740		750		760		
*	*	*	*	*	*	*	*	
CAG AGT GCC ACC GAC GTG GCC GCA TTC CTG GGA GCG CTC GCC TCG CTG								
Q S A T D V A A F L L G A L A S L>								

FIG. 10D

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

```

770      *      780      *      790      *      800      *      810      *
      *      *      *      *      *      *      *
GGC AGC CTC AAC ATC CCC TAC AAG ATC GAG GCC GTG CAG AGT GAG ACC
G  S  L  N  I  P  Y  K  I  E  A  V  Q  S  E  T>-
      *      *      *      *      *      *      *
820      *      830      *      840      *      850      *      860      *
      *      *      *      *      *      *      *
GTG GAG CCG CCC CCG CCG GCG CAG CTG CAC TTC ATG TAC GTG GCG GCG
V  E  P  P  P  P  A  Q  L  H  F  M  Y  V  A  A>
      *      *      *      *      *      *      *
870      *      880      *      890      *      900      *      910      *
      *      *      *      *      *      *      *
GCC GCC TTT GTG CTT CTG TTC TTC GTG GGC TGC GGG GTG CTG CTG TCC
A  A  F  V  L  L  L  F  F  F  V  G  C  G  V  L  L  S>
      *      *      *      *      *      *      *
920      *      930      *      940      *      950      *      960      *
      *      *      *      *      *      *      *
CGC AAG CGC CGG CGG CAG CAT GGC CAG CTC TGG TTC CCT GAG GGC TTC
R  K  R  R  R  R  Q  H  G  Q  L  W  F  P  E  G  F>

```

FIG.10E

APPROVED	OG. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

	970	980	990	1000
* * *	* *	* *	* *	* *
AAA GTG TCT GAG GCC AGC AAG AAG AAG CGG CGG GAG CCC CTC GGC GAG				
K V S E A S K K K K R R E P L G E>				
1010	1020	1030	1040	1050
* * *	* *	* *	* *	* *
GAC TCC GTG GGC CTC AAG CCC CTG AAG AAC GCT TCA GAC GGT GCC CTC				
D S V G L K P L K N A S D G A L>				
1060	1070	1080	1090	1100
* * *	* *	* *	* *	* *
ATG GAC GAC AAC CAG AAT GAG TGG GGG GAC GAG GAC CTG GAG ACC AAG				
M D D N Q N E W G D E D L E T K>				
1110	1120	1130	1140	1150
* * *	* *	* *	* *	* *
AAG TTC CGG TTC GAG GAG CCC GTG GTT CTG CCT GAC CTG GAC GAC CAG				
K F R F E E P V V L P D L D D Q>				

FIG.10F

APPROVED	O.G FIG
BY	CLASS
DRAFTSMAN	SUBCLASS

1160	1170	1180	1190	1200
* * *	* * *	* * *	* * *	* * *
ACA GAC CAC CGG CAG TGG ACT CAG CAC CAG CTG GAT GCC GCT GAC CTG				
T D H R Q Q W T Q Q H L D A A D L>				
1210	1220	1230	1240	
* * *	* * *	* * *	* * *	
CGC ATG TCT GCC ATG GCC CCC ACA CCG CCC CAG GGT GAG GTT GAC GCC				
R M S A M A P T P P Q G E V D A>				
1250	1260	1270	1280	1290
* * *	* * *	* * *	* * *	* * *
GAC TGC ATG GAC GTC AAT GTC CGC GGG CCT GAT GGC TTC ACC CCG CTC				
D C M D V N V R G P D G F T P L>				
1300	1310	1320	1330	1340
* * *	* * *	* * *	* * *	* * *
ATG ATC GCC TCC TGC AGC GGG GGC GGC CTG GAG ACG GGC AAC AGC GAG				
M I A S C S G G G L E T G N S E>				

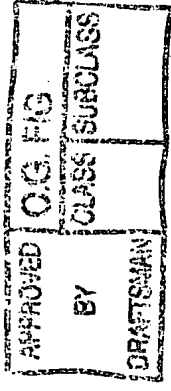
FIG.10G

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

1350	1360	1370	1380	1390
* GAA GAG GAG GAC GCG CCG GCC GTC ATC TCC GAC TTC ATC TAC CAG GGC	* * * *	* * *	* *	* *
E E D A P A V I S D F I Y Q G>				
1400	1410	1420	1430	1440
* * * *	* * *	* * *	* *	* *
GCC AGC CTG CAC AAC CAG ACA GAC CGC ACG GGC GAG ACC GCC TTG CAC				
A S L H N Q T D R T G E T A L H>				
1450	1460	1470	1480	
* * * *	* * *	* * *	* *	
CTG GCC GCC CGC TAC TCA CGC TCT GAT GCC GCC AAG CGC CTG CTG GAG				
L A A R Y S R S D A A K R L L E>				
1490	1500	1510	1520	1530
* * * *	* * *	* * *	* *	* *
GCC AGC GCA GAT GCC AAC ATC CAG GAG AAC ATG GGC CGC ACC CCG CTG				
A S A D A N I Q D N M G R T P L>				

FIG. 10H





1540		1550		1560		1570		1580							
*	*	*	*	*	*	*	*	*							
CAT	GCG	GCT	GTG	TCT	GCC	GAC	GCA	CAA	GGT	GTC	TTC	CAG	ATC	CTG	ATC
H	A	A	V	S	A	D	A	Q	G	V	F	Q	I	L	I>
1590		1600		1610		1620		1630							
*	*	*	*	*	*	*	*	*							
CGG	AAC	CGA	GCC	ACA	GAC	CTG	GAT	GCC	CGC	ATG	CAT	GAT	GGC	ACG	ACG
R	N	R	A	T	D	L	D	A	R	M	H	D	G	T	T>
1640		1650		1660		1670		1680							
*	*	*	*	*	*	*	*	*							
CCA	CTG	ATC	CTG	GCT	GCC	CGC	CTG	GCC	GTG	GAG	GGC	ATG	CTG	GAG	GAC
P	L	I	L	A	A	R	L	A	V	E	G	M	L	E	D>
1690		1700		1710		1720									
*	*	*	*	*	*	*	*	*							
CTC	ATC	AAC	TCA	CAC	GCC	GAC	GTC	AAC	GCC	GTA	GAT	GAC	CTG	GGC	AAG
L	I	N	S	H	A	D	V	N	A	V	D	D	L	G	K>
1730		1740		1750		1760		1770							
*	*	*	*	*	*	*	*	*							
TCC	GCC	CTG	CAC	TGG	GCC	GCC	GCC	GTG	AAC	AAT	GTG	GAT	GCC	GCA	GTT
S	A	L	H	W	A	A	A	V	N	N	V	D	A	A	V>

FIG. 10I

APPROVED	O.G. FHS
BY	CLASS SUBCLASS
DRAFTSMAN	

1780	1790	1800	1810	1820
* GTG CTC CTG AAG AAC GGG GCT AAC AAA GAT ATG CAG AAC AAC AGG GAG	* V L L K N G A N K D M Q N R E>			
1830	1840	1850	1860	1870
* GAG ACA CCC CTG TTT CTG GCC GCC CGG GAG GGC AGC TAC GAG ACC GCC	* E T P L F L A A R E G S Y E T A>			
1880	1890	1900	1910	1920
* AAG GTG CTG CTG GAC CAC TTT GCC AAC CGG GAC ATC ACG GAT CAT ATG	* K V L L D H F A A N R D I T D H M>			
1930	1940	1950	1960	
* GAC CGC CTG CCG CGC GAC ATC GCA CAG GAG CGC ATG CAT CAC GAC ATC	* D R L P R D I A Q E R M H D I>			

FIG.10J

APPROVED	O.G. FILE
BY	CLASS SUBCLASS
DRAFTSMAN	

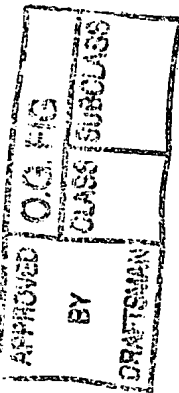
1970	1980	1990	2000	2010
* * *	* * *	* * *	* * *	* * *
GTG AGG CTG CTG GAC GAG TAC AAC CTG GTG CGC AGC CCG CAG CTG CAC				
V R L L D E Y N L V R S P Q L H>				
2020	2030	2040	2050	2060
* * *	* * *	* * *	* * *	* * *
GGA GCC CCG CTG GGG GGC AGC CCC ACC CTG TCG CCC CCG CTC TGC TGC TCG				
G A P L G G T P T L S P P L C S>				
2070	2080	2090	2100	2110
* * *	* * *	* * *	* * *	* * *
CCC AAC GGC TAC CTG GGC AGC CTC AAG CCC GGC GTG CAG GGC AAG AAG				
P N G Y L G S L K P G V Q G K K>				
2120	2130	2140	2150	2160
* * *	* * *	* * *	* * *	* * *
GTC CGC AAG CCC AGC AGC AAA GGC CTG GCC TGT GGA AGC AAG GAG GCC				
V R K P S S K G G L A C G S K E A>				

FIG. 10K

APPROVED	O.G. FIG.
BY	CLASS SURCLASS
DRAFTSMAN	

2170	2180	2190	2200
* * *	* * *	* * *	* * *
AAG GAC CTC AAG GCA CGG AGG AAG AAG TCC CAG GAT GGC AAG GGC TGC			
K D L K A R R K K S Q D G K G C>			
2210	2220	2230	2240
* * *	* * *	* * *	* * *
CTG CTG GAC AGC TCC GGC ATG CTC TCG CCC GTG GAC TCC CTG GAG TCA			
L L D S S G M L S P V D S L E S>			
2260	2270	2280	2290
* * *	* * *	* * *	* * *
CCC CAT GGC TAC CTG TCA GAC GTG GCC TCG CCG CCA CTG CTG CCC TCC			
P H G Y L S D V A S P P L L P S>			
2310	2320	2330	2340
* * *	* * *	* * *	* * *
CCG TTC CAG CAG TCT CCG TCC GTG CCC CTC AAC CAC CTG CCT GGC ATG			
P F Q Q S S P S V P L N H L P G M>			

FIG.10L



2360	2370	2380	2390	2400
* * * * *				
CCC GAC ACC CAC CTG GGC ATC GGG CAC CTG AAC GTG GCG GCC AAG CCC				
P D T H L G I G H L N V A A K P>				
	2410	2420	2430	2440
	* * *	* * *	* * *	* * *
GAG ATG GCG GCG CTG GGT GGG GGC GGC CTG GCG TTT GAG ACT GGC				
E M A A L G G G G G R L A F E T G>				
2450	2460	2470	2480	2490
* * * * *	* * *	* * *	* * *	* * *
CCA CCT CGT CTC TCC CAC CTG CCT GTG GCG TCT GCG ACC AGC ACC GTC				
P P R L S H L P V A S G T S T V>				
2500	2510	2520	2530	2540
* * * * *	* * *	* * *	* * *	* * *
CTG GGC TCC AGC AGC GGA GGG GCG CTG AAT TTC ACT GTG GCG GGG TCC				
L G S S S G G A L N F T V G G S>				

FIG.10M

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

2550                    2560                    2570                    2580                    2590  
 \*                    \*                    \*                    \*                    \*  
 ACC AGT TTG AAT GGT CAA TGC GAG TGG CTG TCC CGG CTG CAG AGC GGC  
 T S L N G Q C E W L S R L Q S G>  
  
 2600                    2610                    2620                    2630                    2640  
 \*                    \*                    \*                    \*                    \*  
 ATG GTG CCG AAC CAA TAC AAC CCT CTG CCG GGG AGT GTG GCA CCA GGC  
 M V P N Q Y N P L R G S V A P G>  
  
 2650                    2660                    2670                    2680  
 \*                    \*                    \*                    \*                    \*  
 CCC CTG AGC ACA CAG GCC CCC TCC CTG CAG CAT GGC ATG GTA GGC CCG  
 P L S T Q A P S L Q H G M V G P>  
  
 2690                    2700                    2710                    2720                    2730  
 \*                    \*                    \*                    \*                    \*  
 CTG CAC AGT AGC CTT GCT GCC AGC GCC CTG TCC CAG ATG ATG AGC TAC  
 L H S S L A A S A L S Q M M S Y>

FIG. 10N

APPROVED	O.G. H.S.
BY	CLASS
DRAFTSMAN	SUBCLASS

2740		2750		2760		2770		2780
*	*	*	*	*	*	*	*	*
CAG GGC CTG CCC AGC ACC CGG CTG GCC ACC CAG CCT CAC CTG GTG CAG								
Q G L P S T R L A T Q P H L V Q>								
2790		2800		2810		2820		2830
*	*	*	*	*	*	*	*	*
ACC CAG CAG GTG CAG CCA CAA AAC TTA CAG ATG CAG CAG AAC CTG								
T Q Q V Q P Q N L Q M Q Q N L>								
2840		2850		2860		2870		2880
*	*	*	*	*	*	*	*	*
CAG CCA GCA AAC ATC CAG CAG CAG CAA AGC CTG CAG CCG CCA CCA CCA								
Q P A N I Q Q Q Q S L Q P P P>								
2890		2900		2910		2920		
*	*	*	*	*	*	*	*	
CCA CCA CAG CCG CAC CTT GGC GTG AGC TCA GCA GCC AGC GGC CAC CTG								
P P Q P H L G V S S A A S G H L>								
2930		2940		2950		2960		2970
*	*	*	*	*	*	*	*	*
GGC CCG AGC TTC CTG AGT GGA GAG CAG CCG AGC CAG GCA GAC GTG CAG CCA								
G R S F L S G E P S Q A D V Q P>								

FIG.100

APPROVED	O.G. FIG
BY	CLASS
DRAFTSMAN	SUBCLASS

2980	*	2990	*	3000	*	3010	*	3020	*
CTG GGC CCC AGC AGC CTG GCG GTG CAC ACT ATT CTG CCC CAG GAG AGC									
L G P S S L A V H T I L P Q E S>									
3030	*	3040	*	3050	*	3060	*	3070	*
CTG GGC CTG CCC ACG TCG TCG CCA TCC TCG CTG GTC CCA CCC GTG ACC									
P A L P T S L P S S L V P P V T>									
3080	*	3090	*	3100	*	3110	*	3120	*
GCA GCC CAG TTC CTG ACG CCC CCC TCG CAG CAC AGC TAC TCC TCG CCT									
A A Q F L T P P S Q H S Y S S P>									

FIG.10P



APPROVED	O.G. ENG
BY	CLASS SUBCLASS
DRAFTSMAN	

3130	3140	3150	3160
* * *	* * *	* * *	* * *
GTG GAC AAC ACC CCC AGC CAC CAG CTA CAG GTG CCT GTT CCT GTA ATG			
V D N T P S H Q L Q V P V P V MD			
3170	3180	3190	3200
* * *	* * *	* * *	* * *
GTA ATG ATC CGA TCT TCG GAT CCT TCT AAA GGC TCA ATT TTG ATC			
V M I R S S D P S K G S S I L I>			
3220	3230		
* * *	* * *		
GAA GCT CCC GAC TCA TGG			
E A P D S W>			

FIG.10Q

APPROVED	O.G. FIG.	CLASS	SUBCLASS
	BY		
DRAFTSMAN			

G GAG GTG GAT GTG TTA GAT GTG AAT GTC CGT GGC CCA GAT GGC TGC	46
Glu Val Asp Val Leu Asp Val Asn Val Arg Gly Pro Asp Gly Cys	
1 5 10 15	
ACC CCA TTG ATG TTG GCT TCT CTC CGA GGA GGC AGC TCA GAT TTG AGT	94
Thr Pro Leu Met Leu Ala Ser Leu Arg Gly Gly Ser Ser Asp Leu Ser	
20 25 50	
GAT GAA GAT GAA GAT GCA GAG GAC TCT TCT GCT AAC ATC ATC ACA GAC	142
Asp Glu Asp Glu Asp Ala Glu Asp Ser Ser Ala Asn Ile Ile Thr Asp	
35 40 45	
TTG GTC TAC CAG GGT GCC AGC CTC CAG GCC CAG ACA GAC CGG ACT GGT	190
Leu Val Tyr Gln Gly Ala Ser Leu Gln Ala Gln Thr Asp Arg Thr Gly	
50 55 60	
GAG ATG GCC CTG CAC CTT GCA GCC CGC TAC TCA CGG GCT GAT GCT GCC	238
Glu Met Ala Leu His Leu Ala Ala Arg Tyr Ser Arg Ala Asp Ala Ala	
65 70 75	
AAG CGT CTC CTG GAT GCA GGT GCA GAT GCC AAT GCC CAG GAC AAC ATG	286
Lys Arg Leu Leu Asp Ala Gly Ala Asp Ala Asn Ala Gln Asp Asn Met	
80 85 90 95	
GGC CGC TGT CCA CTC CAT GCT GCA GTG GCA GCT GAT GCC CAA GGT GTC	334
Gly Arg Cys Pro Leu His Ala Ala Val Ala Ala Asp Ala Gln Gly Val	
100 105 110	
TTC CAG ATT CTG ATT CGC AAC CGA GTA ACT GAT CTA GAT GCC AGG ATG	382
Phe Gln Ile Leu Ile Arg Asn Arg Val Thr Asp Leu Asp Ala Arg Met	
115 120 125	
AAT GAT GGT ACT ACA CCC CTG ATC CTG GCT GCC CGC CTG GCT GTG GAG	430
Asn Asp Gly Thr Thr Pro Leu Ile Leu Ala Ala Arg Leu Ala Val Glu	
130 135 140	

FIG.11A

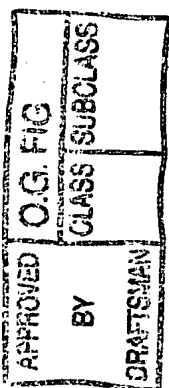
GGA ATG GTG GCA GAA CTG ATC AAC TGC CAA GCG GAT GTG AAT GCA GTG	478
Gly Met Val Ala Glu Leu Ile Asn Cys Gln Ala Asp Val Asn Ala Val	
145 150 155	
GAT GAC CAT GGA AAA TCT GCT CTT CAC TGG GCA GCT GCT GTC AAT AAT	526
Asp Asp His Gly Lys Ser Ala Leu His Trp Ala Ala Ala Val Asn Asn	
160 165 170 175	
GTG GAG GCA ACT CTT TTG TTG TTG AAA AAT GGG GCC AAC CGA GAC ATG	574
Val Glu Ala Thr Leu Leu Leu Leu Lys Asn Gly Ala Asn Arg Asp Met	
180 185 190	
CAG GAC AAC AAG GAA GAG ACA CCT CTG TTT CTT GCT GCC CGG GAG GGG	622
Gln Asp Asn Lys Glu Glu Thr Pro Leu Phe Leu Ala Ala Arg Glu Gly	
195 200 205	
AGC TAT GAA GCA GCC AAG ATC CTG TTA GAC CAT TTT GCC AAT CGA GAC	670
Ser Tyr Glu Ala Ala Lys Ile Leu Leu Asp His Phe Ala Asn Arg Asp	
210 215 220	
ATC ACA GAC CAT ATG GAT CGT CTT CCC CGG GAT GTG GCT CGG GAT CGC	718
Ile Thr Asp His Met Asp Arg Leu Pro Arg Asp Val Ala Arg Asp Arg	
225 230 235	
ATG CAC CAT GAC ATT GTG CGC CTT CTG GAT GAA TAC AAT GTG ACC CCA	766
Met His His Asp Ile Val Arg Leu Leu Asp Glu Tyr Asn Val Thr Pro	
240 245 250 255	
AGC CCT CCA GGC ACC GTG TTG ACT TCT GCT CTC TCA CCT GTC ATC TGT	814
Ser Pro Pro Gly Thr Val Leu Thr Ser Ala Leu Ser Pro Val Ile Cys	
260 265 270	
GGG CCC AAC AGA TCT TTC CTC AGC CTG AAG CAC ACC CCA ATG GGC AAG	862
Gly Pro Asn Arg Ser Phe Leu Ser Leu Lyn His Thr Pro Met Gly Lys	
275 280 285	

FIG.11B

APPROVED	O.G. FIG.
	CLASS SUBCLASS
BY	DRAFTSMAN

AAG TCT AGA CGG CCC AGT GCC AAG AGT ACC ATG CCT ACT AGC CTC CCT	910
Lys Ser Arg Arg Pro Ser Ala Lys Ser Thr Met Pro Thr Ser Leu Pro	
290 295 300	
AAC CTT GCC AAG GAG GCA AAG GAT GCC AAG GGT AGT AGG AGG AAG AAG	958
Asn Leu Ala Lys Glu Ala Lys Asp Ala Lys Gly Ser Arg Arg Lys Lys	
305 310 315	
TCT CTG AGT GAG AAG GTC CAA CTG TCT GAG AGT TCA GTA ACT TTA TCC	1006
Ser Leu Ser Glu Lys Val Gln Leu Ser Glu Ser Ser Val Thr Leu Ser	
320 325 330 335	
CCT GTT GAT TCC CTA GAA TCT CCT CAC ACG TAT GTT TCC GAC ACC ACA	1054
Pro Val Asp Ser Leu Glu Ser Pro His Thr Tyr Val Ser Asp Thr Thr	
340 345 350	
TCC TCT CCA ATG ATT ACA TCC CCT GGG ATC TTA CAG GCC TCA CCC AAC	1102
Ser Ser Pro Met Ile Thr Ser Pro Gly Ile Leu Gln Ala Ser Pro Asn	
355 360 365	
CCT ATG TTG GCC ACT GCC GCC CCT CCT GCC CCA GTC CAT GCC CAG CAT	1150
Pro Met Leu Ala Thr Ala Ala Pro Pro Ala Pro Val His Ala Gln His	
370 375 380	
GCA CTA TCT TTT TCT AAC CTT CAT GAA ATG CAG CCT TTG GCA CAT GGG	1198
Ala Leu Ser Phe Ser Asn Leu His Glu Met Gln Pro Leu Ala His Gly	
385 390 395	
GCC AGC ACT GTG CTT CCC TCA GTG AGC CAG TTG CTA TCC CAC CAC CAC	1246
Ala Ser Thr Val Leu Pro Ser Val Ser Gln Leu Leu Ser His His His	
400 405 410 415	
ATT GTG TCT CCA GGC AGT GGC AGT GCT GGA AGC TTG AGT AGG CTC CAT	1294
Ile Val Ser Pro Gly Ser Gly Ser Ala Gly Ser Leu Ser Arg Leu His	
420 425 430	
CCA GTC CCA GTC CCA GCA GAT TGG ATG AAC CGC ATG GAG GTG AAT GAG	1342
Pro Val Pro Val Pro Ala Asp Trp Met Asn Arg Met Glu Val Asn Glu	
435 440 445	

FIG.11C



ACC CAG TAC AAT GAG ATG TTT GGT ATG GTC CTG GCT CCA GCT GAG GGC 1390  
 Thr Gln Tyr Asn Glu Met Phe Gly Met Val Leu Ala Pro Ala Glu Gly  
 450 455 460

ACC CAT CCT GGC ATA GCT CCC CAG AGC AGG CCA CCT GAA GGG AAG CAC 1438  
 Thr His Pro Gly Ile Ala Pro Gln Ser Arg Pro Pro Glu Gly Lys His  
 465 470 475

ATA ACC ACC CCT CGG GAG CCC TTG CCC CCC ATT GTG ACT TTC CAG CTC 1486  
 Ile Thr Thr Pro Arg Glu Pro Leu Pro Pro Ile Val Thr Phe Gln Leu  
 480 485 490 495

ATC CCT AAA GGC AGT ATT GCC CAA CCA GCG GGG GCT CCC CAG CCT CAG 1534  
 Ile Pro Lys Gly Ser Ile Ala Gln Pro Ala Gly Ala Pro Gln Pro Gln  
 500 505 510

TCC ACC TGC CCT CCA GCT GTT GCG GGC CCC CTG CCC ACC ATG TAC CAG 1582  
 Ser Thr Cys Pro Pro Ala Val Ala Gly Pro Leu Pro Thr Met Tyr Gln  
 515 520 525

ATT CCA GAA ATG GCC CGT TTG CCC AGT GTG GCT TTC CCC ACT GCC ATG 1630  
 Ile Pro Glu Met Ala Arg Leu Pro Ser Val Ala Phe Pro Thr Ala Met  
 530 535 540

ATG CCC CAG CAG GAC GGG CAG GTA GCT CAG ACC ATT CTC CCA GCC TAT 1678  
 Met Pro Gln Gln Asp Gly Gln Val Ala Gln Thr Ile Leu Pro Ala Tyr  
 545 550 555

CAT CCT TTC CCA GCC TCT GTG GGC AAG TAC CCC ACA CCC CCT TCA CAG 1726  
 His Pro Phe Pro Ala Ser Val Gly Lys Tyr Pro Thr Pro Pro Ser Gln  
 560 565 570 575

CAC AGT TAT GCT TCC TCA AAT GCT GCT GAG CGA ACA CCC AGT CAC AGT 1774  
 His Ser Tyr Ala Ser Ser Asn Ala Ala Glu Arg Thr Pro Ser His Ser  
 580 585 590

GGT CAC CTC CAG GGT GAG CAT CCC TAC CTG ACA CCA TCC CCA GAG TCT 1822  
 Gly His Leu Gln Gly Glu His Pro Tyr Leu Thr Pro Ser Pro Glu Ser  
 595 600 605

FIG.11D

CCT GAC CAG TGG TCA AGT TCA TCA CCC CAC TCT GCT TCT GAC TGG TCA 1870  
 Pro Asp Gln Trp Ser Ser Ser Ser Pro His Ser Ala Ser Asp Trp Ser  
 610 615 620

GAT GTG ACC ACC AGC CCT ACC CCT GGG GGT GCT GGA GGA GGT CAG CGG 1918  
 Asp Val Thr Thr Ser Pro Thr Pro Gly Gly Ala Gly Gly Gly Gln Arg  
 625 630 635

GGA CCT GGG ACA CAC ATG TCT GAG CCA CCA CAC AAC AAC ATG CAG GTT 1966  
 Gly Pro Gly Thr His Met Ser Glu Pro Pro His Asn Asn Met Gln Val  
 640 645 650 655

TAT GCG TGAGAGAGTC CACCTCCAGT GTAGAGACAT AACTGACTTT TGTAATGCT 2022  
 Tyr Ala

GCTGAGGAAC AAATGAAGGT CATCCGGGAG AGAAATGAAG AAATCTCTGG AGCCAGCTTC 2082

TAGAGGTAGG AAAGAGAAGA TGTTCTTATT CAGATAATGC AAGAGAAGCA ATTCGTCAGT 2142

TTCACTGGGT ATCTGCAAGG CTTATTGATT ATTCTAATCT AATAAGACAA GTTTGTGGAA 2202

ATGCAAGATG AATACAAGCC TTGGGTCCAT GTTACTCTC TTCTATTTGG AGAATAAGAT 2262

GGATGCTTAT TGAAGCCCAG ACATTCTTGC AGCTTGGACT GCATTTTAAG CCCTGCAGGC 2322

TTCTGCCATA TCCATGAGAA GATTCTACAC TAGCGTCCTG TTGGGAATTA TGCCCTGGAA 2382

TTCTGCCTGA ATTGACCTAC GCATCTCCTC CTCCTTGGAC ATTCTTTTGT CTTCAATTTGG 2442

TGCTTTTGGT TTTGCACCTC TCCGTGATTG TAGCCCTACC AGCATGTTAT AGGGCAAGAC 2502

CTTTGTGCTT TTGATCATTG TGGCCCATGA AAGCAACTTT GGTCTCCTTT CCCCTCCTGT 2562

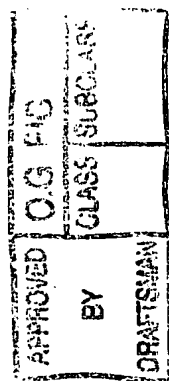
CTTCCCGGTA TCCCTTGGAG TCTCACAAGG TTTACTTTGG TATGGTTCTC AGCACAACCC 2622

TTTCAAGTAT GTTGTCTTCT TGGAAAATGG ACATACTGTA TTGTGTTCTC CTGCATATAT 2682

CATTCTGGA GAGAGAAGGG GAGAAGAATA CTTTCTTCA ACAAATTTTG GGGGCAGGAG 2742

ATCCCTTCAA GAGGCTGCAC CTTAATTTTT CTGTCTGTG TGCAGGTCTT CATATAAACT 2802

FIG.11E



APPROVED	O.G. FIG.	CLASS	SUBCLASS
BY			
DRAFTSMAN			

TTACCAGGAA GAAGGGTGTG AGTTTGTGT TTTTCTGTGT ATGGGCCTGG TCAGTGTA	2862
GTTTTATCCT TGATAGTCTA GTTACTATGA CCCTCCCCAC TTTTTTAAAA CCAGAAAAAG	2922
GTTTGGAATG TTGGAATGAC CAAGAGACAA GTTAACTCGT GCAAGAGCCA GTTACCCACC	2982
CACAGGTCCC CCTACTTCCT GCCAAGCATT CCATTGACTG CCTGTATGGA ACACATTGT	3042
CCCAGATCTG AGCATTCTAG GCCTGTTTCA CTCACTCACC CAGCATATGA AACTAGTCTT	3102
AACTGTTGAG CCTTTCCTTT CATATCCACA GAAGACACTG TCTCAAATGT TGTACCCTTG	3162
CCATTTAGGA CTGAACTTTC CTTAGCCCAA GGGACCCAGT GACAGTTGTC TTCCGTTTGT	3222
CAGATGATCA GTCTCTACTG ATTATCTTGC TGCTTAAAGG CCTGCTCACC AATCTTTCTT	3282
TCACACCGTG TGGTCCGTGT TACTGGTATA CCCAGTATGT TCTCACTGAA GACATGGACT	3342
TTATATGTTT AAGTGCAGGA ATTGGAAAGT TGGACTTGTT TTCTATGATC CAAAACAGCC	3402
CTATAAGAAG GTTGGAAAAG GAGGAACTAT ATAGCAGCCT TTGCTATTTT CTGCTACCAT	3462
TTCTTTTCCT CTGAAGCGGC CATGACATTC CCTTTGGCAA CTAACGTAGA AACTCAACAG	3522

FIG.11F

APPROVED	O.G. FIG.	
	CLASS	SUBCLASS
BY	CRAFTSMAN	

AACATTTTCC TTTCCTAGAG TCACCTTTTA GATGATAATG GACAACTATA GACTTGCTCA	3582
TTGTTGAGAC TGATTGCCCC TCACCTGAAT CCACTCTCTG TATTCATGCT CTTGGCAATT	3642
TCTTTGACTT TCTTTTAAGG GCAGAAGCAT TTTAGTTAAT TGTAGATAAA GAATAGTTTT	3702
CTTCCTCTTC TCCTTGGGCC AGTTAATAAT TGGTCCATGG CTACACTGCA ACTTCCGTCC	3762
AGTGCTGTGA TGCCCATGAC ACCTGCAAAA TAAGTTCTGC CTGGGCATTT TGTAGATATT	3822
AACAGGTGAA TTCCCGACTC TTTTGGTTTG AATGACAGTT CTCATTCTT CTATGGCTGC	3882
AAGTATGCAT CAGTGCTTCC CACTTACCTG ATTTGTCTGT CGGTGGCCCC ATATGGAAAC	3942
CCTGCGTGTC TGTTGGCATA ATAGTTTACA AATGGTTTTT TCAGTCCTAT CCAAATTTAT	4002
TGAACCAACA AAAATAATTA CTTCTGCCCT GAGATAAGCA GATTAAGTTT GTTCATTCTC	4062
TGCTTTATTC TCTCCATGTG GCAACATTCT GTCAGCCTCT TTCATAGTGT GCAACATTT	4122
TATCATTCTA AATGGTGACT CTCTGCCCTT GGACCCATTT ATTATTCACA GATGGGGAGA	4182
ACCTATCTGC ATGGACCCTC ACCATCCTCT GTGCAGCACA CACAGTGCAG GGAGCCAGTG	4242
GCGATGGCGA TGACTTTCTT CCCCTG	4268

FIG. 11G



APPROVED	O.G. FIG
BY	CLASS
DRAFTSMAN	SUBCLASS

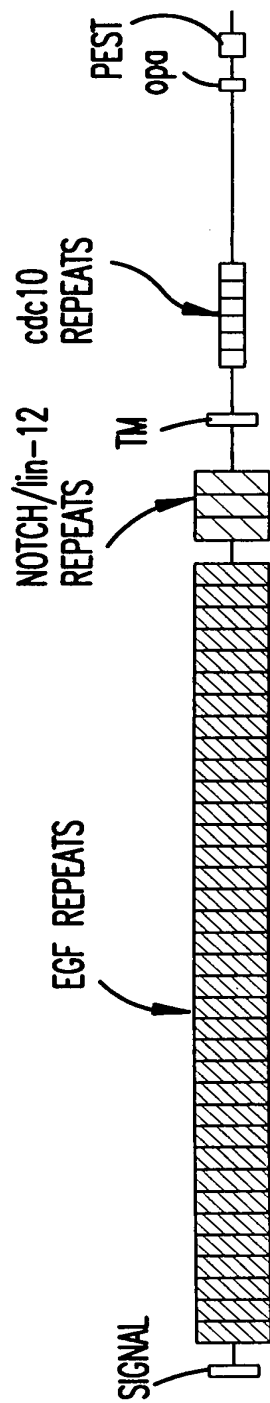


FIG.12A





CLASS  
 SUBCLASS  
 BY  
 DRAFTSMAN

Potential signal cleavage site

hum N	MP	ALRPAL	LWALLALWLC	CA	APA	HA
TAN-1	MP	PL	LAPLLCLALL	PA	LAA	RG
Xen N	MD	RIGLAVLLCS	LP	VLT	QG	
Dros N	MQSQSRRRRS	RAPNTWICFW	INKMHAVASL	PASLPLLLLT	LAFANLPNIV	RGTDALVAA

hum N	MLGKATCRCA	SGFTGEDCQY	STSHPCFVSR	PCLNGGTCHM	LSRDT-YECT	CQVGFTGKEC
Tan-1	GVADYACSCA	LGFSGPLCLT	PLDNAC-LTN	PCRNGGTCOL	LT-LTEYKCR	CPPGWSGKSC
Xen N	NAIDFICHCP	VGFTDKVCLT	PVDNAC-VNN	PCRNGGTCEL	LNSVTEYKCR	CPPGWTGDSC
Dros N	GRPGISCKCP	LGFEDELCEI	AVPNAC-DHV	TCLNGGTCQL	KT-LEEYTC	CANGYTGERC

hum N	NLPGSYQCQC	PQGTGQYCD	SLYVPCAPSP	CVNGGTCRQT	GDFTFECNCL	PGFEGSTCER
TAN-1	NEVGSYRCVC	RATHTGPNC	RPYVPCSPSP	CQNGGTCRPT	GDVTHEACCL	PGFTGQNCCE
Xen N	NEFGSYRCTC	QNRFTGRNCD	EPYVPCNPSP	CLNGGTCRQT	DDTSYDCTCL	PGFSGQNCCE
Dros N	NTHGSYQCMC	PTGYTGKDCD	TKYNPCSPSP	CQNAGICRSN	G-LSYECKCP	KGFEGKNCEQ

EGF-like Repeats

QCRDGYEPCV	NEGMCVTYHN	GTGYCKPEG	FLGEYCQHRD	PCE-KNRCQN	GGTC-VAQA	83
RCSQPGETCL	NGGKCEA-AN	GTEACVCGA	FVGPRCQDPN	PCL-STPCKN	AGTCHVDDR	80
RCTQTAEMCL	NGGRCEMPG	GTGVCLCGNL	YFGERCQFPN	PCTIKNQCMN	FGTCEPVLQG	90
SCTSVG-CQ	NGGTCVTQLN	GKTYCACDSH	YVGDYCEHRN	PCN-SMRCQN	GGTCQVTFRN	117

QWTDACLSP	CANGSTCTTV	-ANQFSCKC	LTGFTGQKCE	TDVNEC-DIP	GHCQHGGTCL	199
QQADPCASNP	CANGGQCLPF	-EASYICH	PPSFHGPTCR	QDVNECGQKP	RLCRHGGTCH	196
QQADPCASNP	CANGGKCLPF	-EIQYICKC	PPGFHGATCK	QDINEC-S-Q	NPCKNGGQCI	195
ETKNLCASSP	CRNGATCTAL	AGSSSFTCS	PPGFTGDTCS	YDIEEC-Q-S	NPCKYGGICV	233

NIDDCPNHRC	QNGGVCVDGV	NTYNCRCPQ	WTGQFCTEDV	DECLLPNA-	CQNGGTCANR	318
NIDDCPGNNC	KNGGACVDGV	NTYNPCPPE	WTGQYCTEDV	DECQLMPNA-	CQNGGTCHNT	315
NIDDCPSNNC	RNGGTCVDGV	NTYNQCQPPD	WTGQYCTEDV	DECQLMPNA-	CQNGGTCHNT	314
NYDDCLGLHC	QNGGTCIDGI	SDYTCRCPPN	FTGRFCQDDV	DECAQRDHPV	CQNGATCTNT	352

FIG.13A

APPROVED

BY

O.G. FIG

CLASS

SUBCLASS

DRAFTSMAN

hum N	NGGYGCVCVN	GWSGDDCSEN	IDDCAFASCT	PGSTCIDRVA	SFSCMCPEGK	AGLLCHLDDA
TAN-1	HGGYNCVCVN	GWTGEDCSEN	IDDCASAACF	HGATCHDRVA	SFYCECPHGR	TGLLCHLNDA
Xen N	YGGYNCVCVN	GWTGEDCSEN	IDDCANAACH	SGATCHDRVA	SFYCECPHGR	TGLLCHLDNA
Dros N	HGSYSICVN	GWAGLDCSNN	TDDCKQAACF	YGATCIDGVG	SFYCQCTKGK	TGLLCHLDDA

hum N	AFHCECLKGY	AGPRCEMDIN	ECHSDPCQND	ATCLDKIGGF	TCLCMPGFKG	VHCELEINEC
TAN-1	SFECQCLQGY	TGPRCEIDVN	ECVSNPCQND	ATCLDQIGEF	QCMCMPGYEG	VHCEVNTDEC
Xen N	SFQCNCPOGY	AGPRCEIDVN	ECLSNPCQND	STCLDQIGEF	QCICMPGYEG	LYCETNIDEC
Dros N	SYRCNCSQGF	TGPRCETNIN	ECESHPCQNE	GSCLDDPGTF	RCVCMPGFTG	TQCEIDIDEC

hum N	ATGFTGVLCE	ENIDNCDPDP	CHHGQCQDGI	DSYTCICNPG	YMGATCSQDI	DECYSSPCLN
TAN-1	TEGYTGTHCE	VDIDECDPDP	CHYGSCCKDGV	ATFTCLCRPG	YTGHHCE TNI	NECSSQPCRL
Xen N	TEGFTGRHCE	QDINECIPDP	CHYGTCKDGI	ATFTCLCRPG	YTGRLCDNDI	NECLSKPCLN
Dros N	PPGYTGTSCE	ININDCDSNP	CHRGKCIDDV	NSFKCLCDPG	YTG YICQKQI	NECESNPCQF

CISNPCHKGA	LCDTNPLNGQ	YICTCPQGYK	GADCTEDVDE	CAMANSNPCE	HAGKCVNTDG	438
CISNPCNEGS	NCDTNPVNGK	AICTCPSGYT	GPACSQDVDE	CSLG-ANPCE	HAGKCINTLG	434
CISNPCNEGS	NCDTNPVNGK	AICTCPPGYT	GPACNNDVDE	CSLG-ANPCE	HGGRCTNTLG	433
CTSNPCHADA	ICDTSPINGS	YACSCATGYK	GVDCESEDIDE	CDQG-SPCE	HNGICVNTPG	470

QSNPCVNNGQ	CVDKVNRFQC	LCPPGFTGPV	CQIDIDDCSS	TPCLNGAKCI	DHPNGYECQC	558
ASSPCLHNGR	CLDKINEFQC	ECPTGFTGHL	CQYDVDECAS	TPCKNGAKCL	DGPNTYTCVC	554
ASNPLCHNGK	CIDKINEFRC	DCPTGFSGNL	CQHDFDECTS	TPCKNGAKCL	DGPNSYTCQC	553
QSNPCLNDGT	CHDKINGFKC	SCALGFTGAR	CQINIDDCQS	QPCRNRGICH	DSIAGYSCEC	590

DGRCIDLUNG	YQCNCQPGTS	GVNCEINFDD	CASNPCIHG-	ICMDGINRYS	CVCSPGFTGQ	677
RGTCQDPDNA	YLCFCLKGTT	GPNCEINLDD	CASSPCDSG-	TCLDKIDGYE	CACEPGYTGS	673
GGQCTDRENG	YICTCPKGTT	GVNCETKIDD	CASNLCDN-	KCIDKIDGYE	CTCEPGYTGK	672
DGHCQDRVGS	YYCQCQAGTS	GKNCEVNVNE	CHSNPCNNGA	TCIDGINSYK	CQCVPGFTGQ	710

FIG.13B

APPROVED BY DRAFTSMAN

hum N	RCNIDIDECA	SNPCRKGATC	INGVNGFRCI	CPEGPHHPSC	YSQVNECLSN	PCI-HGNCCTG
TAN-1	MCNSNIDECA	GNPCHNGGTC	EDGINGFTCR	CPEGYHDPTC	LSEVNECNSN	PCV-HGACRD
Xen N	LCNININECD	SNPCRNGGTC	KDQINGFTCV	CPDGYDHMC	LSEVNECNSN	PCI-HGACHD
Dros N	HCEKNVDECI	SSPCANNGVC	IDQVNGYKCE	CPRGFYDAHC	LSDVDECASN	PCVNEGRCD

hum N	DECASNPCLN	QGTCFDDISG	YTCHCVLPYT	GKNCQTVLAP	CSPNPCENAA	VCKESPNEFES
TAN-1	NECASNPCLN	KGTCIDDVAG	YKCNCLLPYT	GATCEVVLAP	CAPSPCRNGG	ECRQSEDYES
Xen N	NECSSNPCLN	HGTCIDDVAG	YKCNCLLPYT	GAICEAVLAP	CAGSPCKNGG	RCKESEDFT
Dros N	DDCVTNPCGN	GGTCIDKVNG	YKCVCKVPFT	GRDCESKMDP	CASNRCKNEA	KCTPSSNFLD

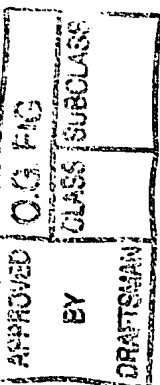
hum N	CLANPCQNGG	SCMDGVNTFS	CLCLPGFTGD	KCQTDNMECL	SEPCKNGGTC	SDYVNSYTCK
TAN-1	CRPNPCHNGG	SCTDGINAF	CDCLPGFRGT	FCEEDINECA	SDPCRNGANC	TDCVDSYTCT
Xen N	CQPNPCHNGG	SCSDGINMFF	CNCPAGFRGP	KCEEDINECA	SNPCKNGANC	TDCVNSYTCT
Dros N	CASFPCQNGG	TCLDGIGDYS	CLCVDGFDGK	HCETDINECL	SQPCQNGATC	SQYVNSYTCT

GLSGYKCLCD	AGWVGINCEV	DKNECLSNPC	QNGGTCNLY	NGYRCTCKKG	FKGYNCQVNI	796
SLNGYKDCD	PGWSGTNCI	NNNECESNPC	VNGGTCKDMT	SGIVCTCREG	FSGPNCQTNI	792
GVNGYKDCD	AGWSGSNCI	NNNECESNPC	MNGGTCKDMT	GAYICTCKAG	FSGPNCQTNI	791
GINEFICHCP	PGYTGRCEL	DIDECSSNPC	QHGGTCYDKL	NAFSCQCMFG	YTGQKCEINI	830

YTCLCA-PGW	QGQRCTIDID	EC-ISKPCMN	HGLCHNTQGS	YMCECPPGFS	GMDCEEDIDD	914
FSCVCPTAGA	KGQTCEVDIN	EC-VLSPCRH	GASCQNTGG	YRCHCQAGYS	GRNCETDIDD	911
FSCECP-PGW	QGQTCEIDMN	EC-VNRPCRN	GATCQNTNGS	YKCNCKPGYT	GRNCEDIDD	909
FSCTCK-LGY	TGRYCEDID	ECSLSSPCRN	GASCLNVPGS	YRCLCTKGYE	GRDCAINTDD	949

CQAGFDGVHC	ENNINECTES	SCFNGGTCVD	GINSFSCLCP	VGFTGSFCLH	EINECSSHPC	1034
CPAGFSGIHC	ENNTPDCTES	SCFNGGTCVD	GINSFTCLCP	PGFTGSYCQH	VVNECDSPRC	1031
CQPGFSGIHC	ESNTPDCTES	SCFNGGTCID	GINTFTCQCP	PGFTGSYCQH	DINECDSPKC	1029
CPLGFSGINC	QTNDEDCTES	SCLNGGSCID	GINGYNCSC	AGYSGANCQY	KLKNCDSNPC	1069

FIG.13C



hum N	LNEGTCVDGL	GTYRCSCPLG	YTGKNCQTLV	NLCSRSPCKN	KGTCVQKKAE	SQCLCPSGWA
TAN-1	LLGGTCQDGR	GLHRCTCPQG	YTGPNQNLV	HWCDSSPCKN	GGKCWQHTQ	YRCECPSGWT
Xen N	LNGGTCQDSY	GTWKCTCPQG	YTGLNCQNLV	RWCDSSPCKN	GGKCWQTNNF	YRCECKSGWT
Dros N	LNGATCHEQN	NEYTCHCPSC	FTGKQCSEYV	DWCGQSPCEN	GATCSQMKHQ	FCKCSAGWT

hum N	SNPCQHGATC	SDFIGGYRCE	CVPGYQGVNC	EYEVDECQNG	PCQNGGTCID	LVNHFKCSCP
TAN-1	PSPCQNGATC	TDYLGGSCK	CVAGYHGVNC	SEEIDECLSH	PCQNGGTCLD	LPNTYKCSCP
Xen N	PNPCQNGATC	TDYLGGSCE	CVAGYHGVNC	SEEINECLSH	PCQNGGTCID	LINTYKCSCP
Dros N	SQPCQNGGTC	RDLIGAYECQ	CRQGFQGNQ	ELNIDDCAPN	PCQNGGTCHD	RVMNFCSCP

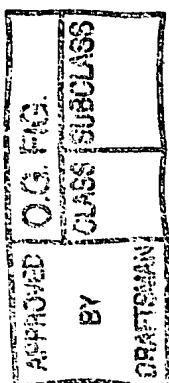
hum N	CLSNPCSSSEG	SLDCIQLTND	YLCVCRSAFT	GRHCETFDV	CPQMPCLNGG	TCAVASNMPD
TAN-1	CLSNPCDARG	TQNCVQRVND	FHCECRAGHT	GRRCESVING	CKGKPCCKNG	TCAVASNTAR
Xen N	CLSNPCDSRG	TQNCIQLVND	YRCECRQFT	GRRCESVVDG	CKGMPCKRNG	TCAVASNTER
Dros N	CLSNPCSNAG	TLDCVQLVNN	YHCNCRPGHM	GRHCEHKVDF	CAQSPCQNGG	NCNI—RQS

GAYCDVPNS	CDIAASRRGV	LVEHLCQHS	VCINAGNTHY	CQCPLGYTGS	YCEEQLDECA	1154
GLYCDVPSVS	CEVAAQRQGV	DVARLCQHG	LCVDAGNTHH	CRCQAGYTGS	YCEDLVDECS	1151
GVYCDVPSVS	CEVAAKQGV	DIVHLCRNS	MCVDTGNTHF	CRCQAGYTGS	YCEEQVDECS	1149
GKLCDVQTIS	CQDAADRKGL	SLRQLC—NNG	TCKDYGNSHV	CYCSQGYAGS	YCQKEIDECQ	1188

PGTRGLLEE	NIDDCAR—	—GPHCLN	GGQCMDRIGG	YSCRCLPGFA	GERCEGDINE	1267
RGTQGVHCEI	NVDDCNPPVD	PVSRSPKCFN	NGTCVDQVGG	YSCTCPPGFV	GERCEGDVNE	1271
RGTQGVHCEI	NVDDCTPFYD	SFTLEPKCFN	NGKCIDRVGG	YNCICPPGFV	GERCEGDVNE	1269
PGTMGIICEI	NKDDCKP—	—GACHN	NGSCIDRVGG	FECVCQPGFV	GARCEGDINE	1300

GFICRCPPGF	SGARCQS—	SCGQVKCRKG	EQCVHTAS—	GPRCFCPSP—	—RDCES—	1376
GFICKCPAGF	EGATCENDAR	TCGSLRCLNG	GTCISGPR—	SPTCLCLGPF	TGPECQFPAS	1389
GFICKCPPGF	DGATCEYDSR	TCSNLRQNG	GTCISVLT—	SSKVCVSEGY	TGATCQYPVI	1387
GHHCICNNGF	YGKNCESGQ	DCDSNPCRVG	—NCVVADEGF	GYRCECPRG	LGEHCEIDTL	1415

FIG.13D



hum N	-GC-ASSPCQ HGGSCHPQRQ PPYYSCQCAP PFGSRCEL	-YTAPP	-S	TPP
TAN-1	SPCLGGNPCY NQGTCEPTSE SPFYRCLCPA KFNGLLCHIL	DYSFGG	-GAGRDIPPP	
Xen N	SPC-ASHPCY NGGTCQFFAE EPFFQCFCHK NFNGLFCHIL	DYEFPG	-GLGKNITPP	
Dros N	DEC-SPNPCA QGAACEDLLG D-YECLCPS KWKGRCDIY	DANYPGWNGG	SGSGNDRYAA	

hum N	NN-QCDELGN TVECLFDNFE CQGNSTCK-	-YDKYCADHF	KDNHCNQGCN	SEECGWDGLD
TAN-1	SDGHCDQCN SAGCLFDGFD CQRAEGQCN	LYDQYCKDHF	SDGHCDQGCN	SAECEWDGLD
Xen N	NDGKCDQCN NTGCLYDGF D CQKVEVQCN	LYDQYCKDHF	QDGHCDQGCN	NAECEWDGLD
Dros N	KNGKNEECN NAACHYDGH D CERKLKSCDS	LFDAYCQKHY	GDGFCDYGCN	NAECSDWGLD

hum N	YYGEKSAAMK KQ-R	-MTRRSL	PGEQ	-E	QEVAGSKVFL
TAN-1	YGREEELRK HPIKRAAEGW AAPDALLGQV	KASLLPGGSE	GRRRRRELDP	MDVRGSIVYL	
Xen N	YGNEEELKK HHIKRSTDYW SDAPSAI	-FSTMKESIL	LGRHRRELDE	MEVRGSIVYL	
Dros N	WKDNVRVPEI EDTDFARKNK ILYTQQVHQ	-	-	-	TGIQIYL

# LNR (Notch/Lin-12 Repeats)

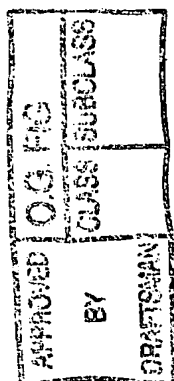
—A—TCL	SQYCADKARD	GVCDEACNSH	ACQWDGGDCS	LTMENPWANC	SSPLPCWDYI	1476
LIEE—ACE	LPECQEDAGN	KVCSLQCNH	ACGWDGGDCS	LNFNDPWKNC	TQSLQCWKYF	1501
DND—ICE	NEQCSELADN	KVCNANCNNH	ACGWDGGDCS	LNFNDPWKNC	TQSLQCWKYF	1498
DLEQQRAMCD	KRGCTEKQGN	GICDSDCNTY	ACNFDGNDCS	LGI-NPWANC	TAN-EXWNKF	1531

CAADQOPEN-L	AEGTLVIIVL	MPPEQLLQDA	R-SFLRALGT	LLHTNLRIKR	DSQGELMVYP	1591
CAEHVPER-L	AAGTL-VVVV	LMPPEQLRNS	SFHFLRELSR	VLHTNVVFKR	DAHQQMIFP	1619
C-ANMPEN-L	AEGTLVLVVL	MPPERLKNNS	V-NFLRELSR	VLHTNVVFKK	DSKGEYKIYP	1615
CENKTQSPVL	AEGAMSVVML	MNVEAFREIQ	A-QFLRNMSH	MLRTTVRLKK	DALGHDIIIN	1650

EIDNRQCVQD	SDHCFKNTDA	AAALLASHAI	QG—TLSYP	LVSIVSESLT	PERT-Q—LLY	1680
EIDNRQCVQA	SSQCFQSATD	VAAFLGALAS	LGSL-NIPYK	IEAVQSETVE	PPPPAQ—LHF	1737
EIDNRQCYKS	SSQCFNSATD	VAAFLGALAS	LGSLDLSYK	IEAVKSENME	TPKPST—LYP	1730
EIDNRKCTEC	FTHAVEAAEF	LAATAAKHQL	RNDFQ-IHSV	RGIKNPGDED	NGEPANVKY	1745

FIG.13E





hum N	LLAVAVVIL FIILLGVIMA	KRKRK—HGS	LWLPEGFTLR	RDASNHRRE	PVGQDAVGLK
TAN-1	MYVAAAFLV LFFVCGVL	SRKRRRQHCG	LWFPEGFKV-	SEASKKKRRE	ELGEDSVGLK
Xen N	MLSMLVIPL IIFVMMVIV	NKKRRREHDS	FGSPTALFQK	NPA-KRNGET	PW-EDSVGLK
Dros N	VITGIILVII ALAFFGMVL	STQRKRAHGV	TWFPEGFRAP	AAVMSRRRRD	PHGQEMRNLN

CDC-10/Ankyrin Repeats

hum N	PIDRRPWTQQ HLEAADIRRT	PSLALTPPQA	EQEVDVLDVN	VRGPDGCTPL	MLASLRGGSS
TAN-1	QTDHRQWTQQ HLDAAAL-RM	SAMAPTPPQG	EVDADCMDVN	VRGPDGFTPL	MIASCSGGGL
Xen N	KTDPRQWTRQ HLDAAAL-RI	SSMAPTPPQG	EIEADCMDVN	VRGPDGFTPL	MIASCSGGGL
Dros N	EADQRVWSQA HLDVVDV-R-	AIM--TPP-A	HQDGGKHDVD	ARGPCGLTPL	MIAAVRGGGL

hum N	ANAQDNMGRC PLHAAVAADA	QGVFQILIRN	RVTDL DARMN	DGTTPLILAA	RLAVEGMVAE
TAN-1	ANIQDNMGRT PLHAAVSADA	QGVFQILIRN	RATDL DARMH	DGTTPLILAA	RLAVEGMLED
Xen N	ANVQDNMGRT PLHAAVAADA	QGVFQILIRN	RATDL DARMF	DGTTPLILAA	RLAVEGMVEE
Dros N	ANCQDNTGRT PLHAAVAADA	MGVFQILLRN	RATNLNARMH	DGTTPLILAA	RLAIEGMVED

NLSVQVSEAN	LIGTGTSEHW	VDDE	————	————	G	PQPKKKAED	EALLSE-EDD	1782
PLK-NASDGA	LMDDNQNE-W	GDED	————	————		LETKKRFEE	PVLPD-LDD	1837
PIK-NMTDGS	FMDDNQNE-W	GDEET	————	————		LENKRFRFE	QVILPELVDD	1831
KQVAMQSGV	GQPGAH—W	SDDESMDPLP	KRQRSDPVSG	VGLGNNGGYA	SDHTMVSEYE			1861

DLSEDEDAE	DSSANIITDL	VYQGASLQAQ	TDRTGEMALH	LAARYSRADA	AKRLLDAGAD			1902
ETGNSEEE-E	DAPA-VISDF	IYQGASLHNQ	TDRTGETALH	LAARYSRSDA	AKRLLEASAD			1954
ETGNSEEE-E	DASANMISDF	IGQGAQLHNQ	TDRTGETALH	LAARYARADA	AKRLLESSAD			1949
DTGEDIENNE	DSTAQVISDL	LAQGAELNAT	MDKTGETSLH	LAARFARADA	AKRLLDAGAD			1976

LINCQADVNA	VDDHGKSALH	WAAAVNNVEA	TLLLLKNGAN	RDMQDNKEET	PLFLAAREGS			2022
LINSHADVNA	VDDLGKSALH	WAAAVNNVDA	AVVLLKNGAN	KDMQNNREET	PLFLAAREGS			2074
LINAHADVNA	VDEFGKSALH	WAAAVNNVDA	AAVLLKNSAN	KDMQNNKEET	SLFLAAREGS			2069
LITADADINA	ADNSGKTALH	WAAAVNNTEA	VNILLMHAN	RDAQDDKDET	PLFLAAREGS			2096

FIG.13F



APPROVED	O.G. FIG
BY	CLASS SUBCLASS
DRAFTSMAN	

hum N	GSAGSLRSLH	PVPVPADW—	MNRMEVNETQ	YNEMFGMVL A	PAEG—THPGI	APQSRPPEGK
TAN-1	GQCEWLSRLQ	SGMVPNQYNP	LRGSVAPGPL	STQAPSLQHG	—MVGPLHSSL	AASALSQMMS
Xen N	SQCDWLARLQ	NGMVQNQYDP	IRNGIQQGN—	AQQAQALQHG	LMTS—LHNGL	PATTL SQMMT
Dros N	PSLPTSPTHI	QAMRHATQQK	QFGGSLNLSL	LGGANGGGVV	GGGGGGGGGV	GQGPQNSPVS

hum N	APQPQSTCPP	AVAGPLPTMY	QIP——EM	ARL—PSVAFP	TAMMPQQDGQ	VAQTILPAYH
TAN-1	PPQPHLGVSS	AASGHLGRSF	LSGEPSQADV	QLGPSSLAV	HTILPQ—ESP	ALPTSLPSSL
Xen N	MQQQHHN—SS	TTSTHINSFP	CSSDISQTDL	QQM—SSNNI	HSVMPQ—DTQ	IFAASLPSNL
Dros N	QQQLGGLEFG	SAGLDLNG—F	CGSPDSFHSG	QMNPPS——I	QSSMSG—SSP	STNMLSPSSQ

hum N	SDWSDVTTSP	TPGGAGGGQR	GPGTHMSEPPHNN	MQVYA
TAN-1	SDWSEGVSSP	PT——SMQ	SQIARIPEAFK	
Xen N	SDWSEGISSP	PT——SMQ	PQRTHIPEAFK	
Dros N	SDWSEGVQSP	AANNLYISGG	HQANKGSEAIYI	

—————	—HITTPRE	PLPP—IV—TF	QLIPKGSIAQ	PAG———	—————	2320
—————	—YQGLPSTRL	ATQPHLVQTQ	QVQPQNLMQ	QQNLQPANIQ	QQQSLQPPPP	2414
—————	—YQAMPNTRL	ANQPHLMQAQ	QMQQQQN—	—————	——LQLHQS	2384
LGII SPTGSD	MGIMLAPPQS	SKNSAIMQTI	SPQQQQQQQQ	QQQQQHQQQQ	QQQQQQQQQQ	2565

PEST -containing Region

PFPASVGKYP	TPPSQHSYAS	SNAARTPSH	SGHLQGEHPY	LTPSPESPDQ	WSSSSPHSA—	2433
VPPVTAAQFL	TPPSQHSY—S	S—PVENTPSH	QLQVP—EGPF	LTPSPESPDQ	WSSSSPHSNV	2530
TQSMTTAQFL	TPPSQHSY—S	S—PMDNTPSH	QLQVP—DHPF	LTPSPESPDQ	WSSSSPHSNM	2497
HNQAFYQYL	TPSSQHS—	—GGHTPQH	LVQTL—D—SY	PTSPESPUGH	WSSSSPRSN—	2671

2471  
2556  
2523  
2703

FIG.13H

APPROVED	O.G. FIG
BY	CLASS
CRAFTSMAN	SUBCLASS

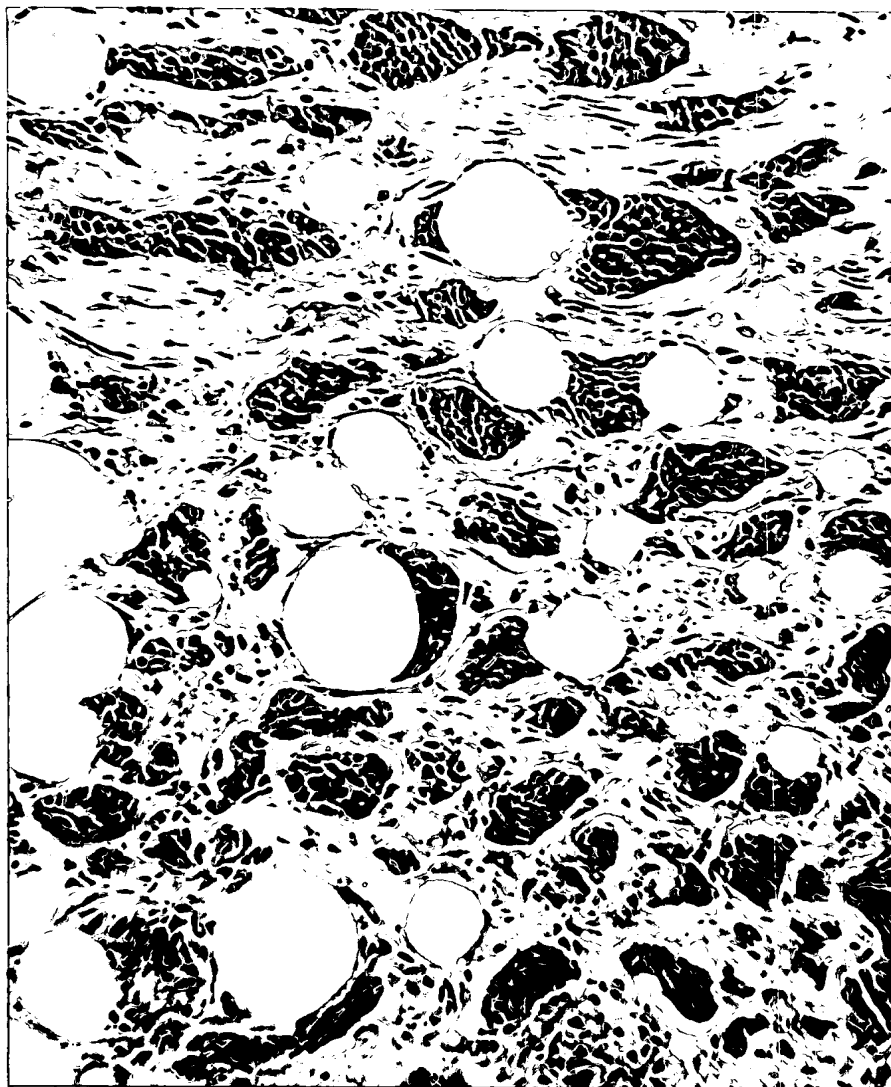


FIG. 14

APPROVED	O.G. FIG	CLASS	SUBCLASS
BY			
DRAFTSMAN			

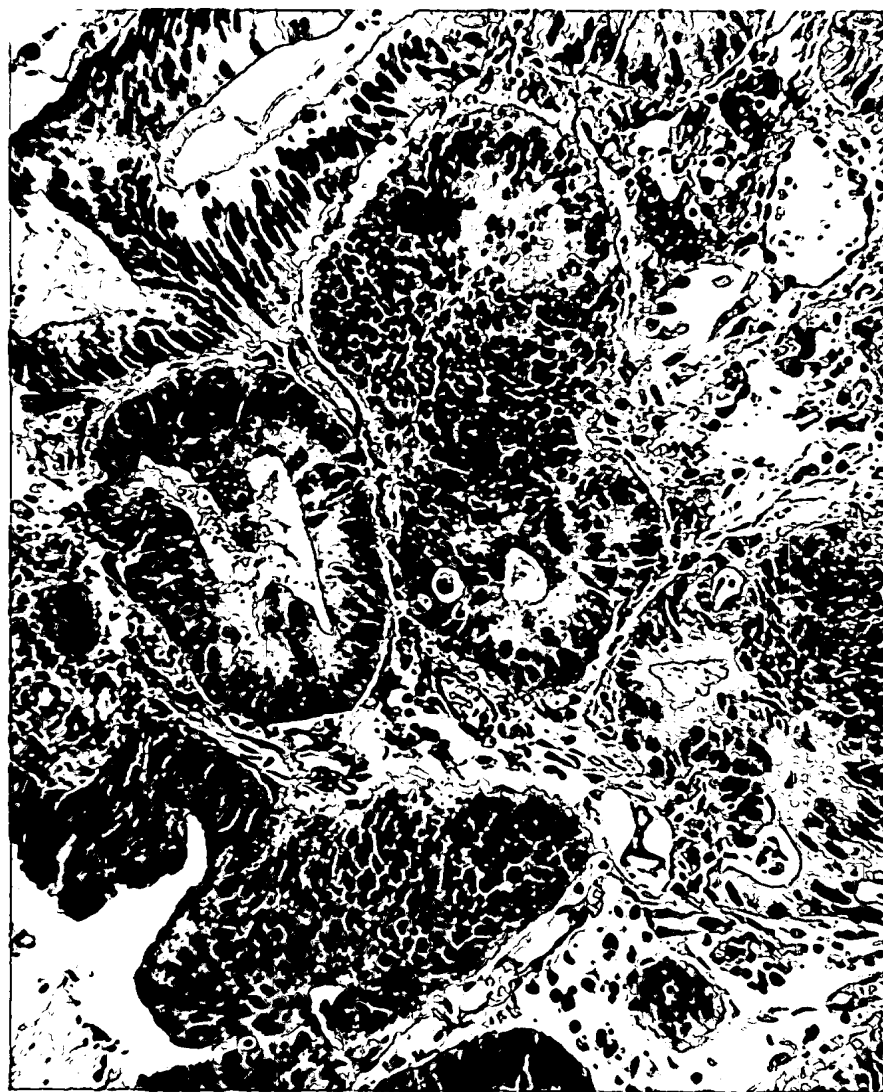


FIG.15B

APPROVED	O.G. FIG
BY	CLASS
CRAFTSMAN	SUBCLASS

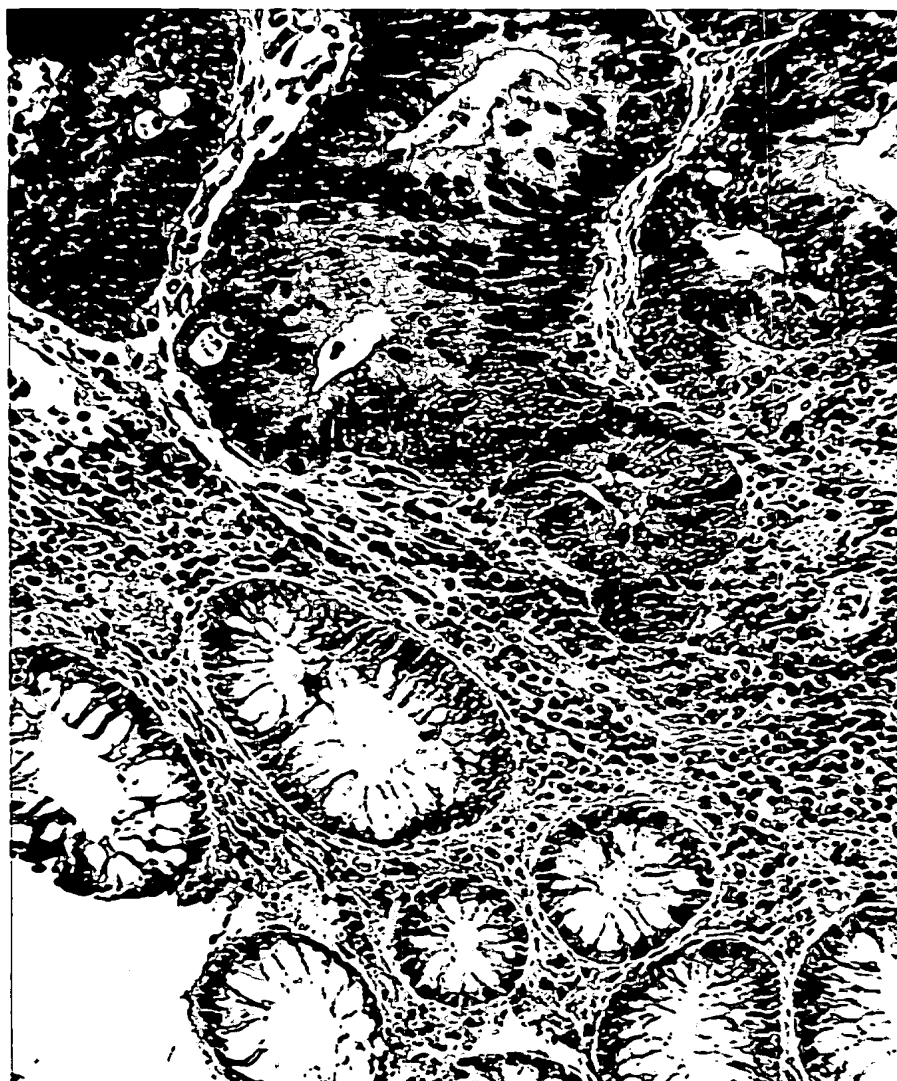


FIG. 15A



FIG. 16A

APPROVED	DATE	BY	REVISION
	02/02/00		

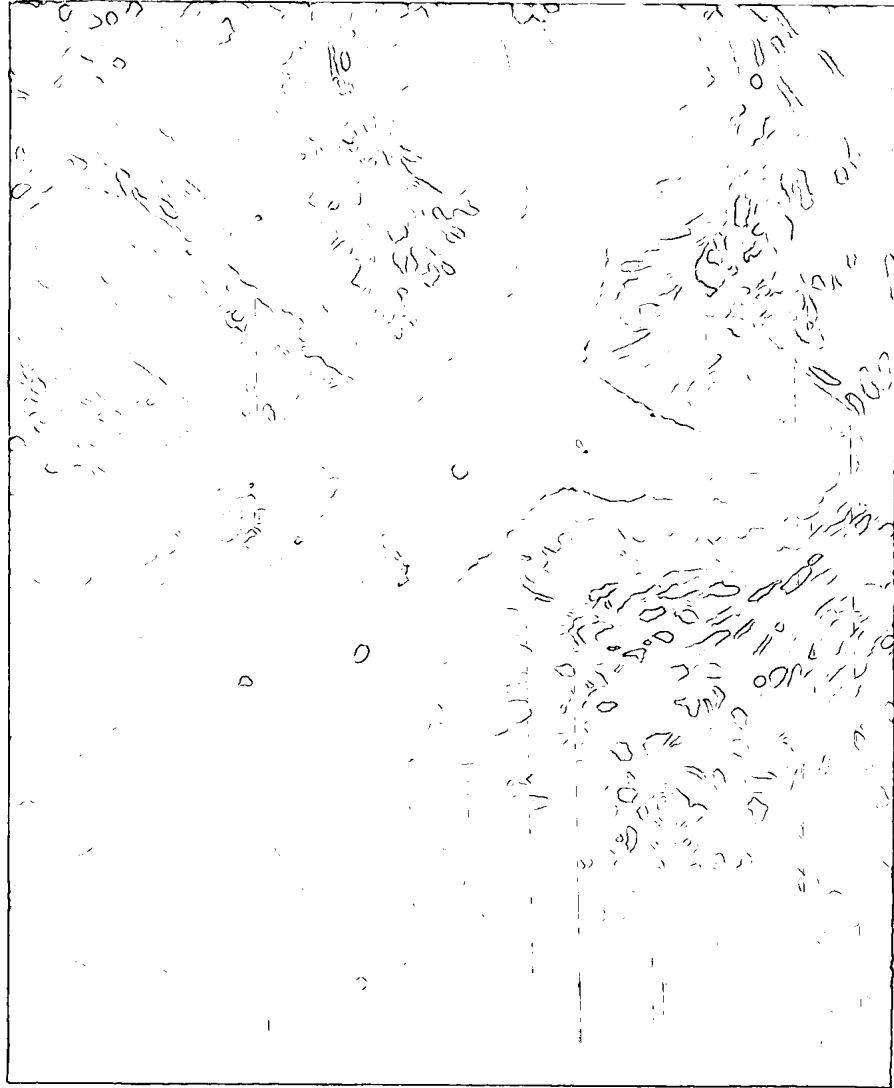
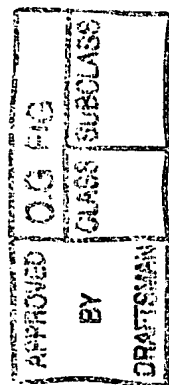


FIG.16B





10 20 30 40 50 60 70 80 90  
\* \* \* \* \*  
GGAATTCGG CCGCCCTGG CCCCCTCTG CTGTGGGCG TGCTGGGCT CTGGCTGTG TGGCGGGCC CCGCGCATG ATTGCAGTG  
P A L R P A L L W A L L A L W L C C A A P A H A L Q C>  
100 110 120 130 140 150 160 170 180  
\* \* \* \* \*  
CGAGATGGCT ATGAACCCTG TGTAATCAA GGAATGTGT TTACCTACCA CAATGGCACA GGATACTGCA AATGTCCAGA AGGCTTCTG  
R D G Y E P C V N E G M C V T Y H N G T G Y C K C P E G F L>  
190 200 210 220 230 240 250 260 270  
\* \* \* \* \*  
GGGGAATATT GTCAACATCG AGACCCTGT GAGAAGAACC GCTGCCAGAA TGGTGGGACT TGTGTGGCCC AGGCCATGCT GGGGAAAGCC  
G E Y C Q H R D P C E K N R C Q N G G T C V A Q A M L G K A>  
280 290 300 310 320 330 340 350 360  
\* \* \* \* \*  
ACGTGCCGAT GTGCCTCAGG GTTTACAGGA GAGGACTGCC AGTACTCAAC ATCTCATCCA TGCTTTGTGT CTCGACCTG CCTGAATGCC  
T C R C A S G F T G E D C Q Y S T S H P C F V S R P C L N G>  
370 380 390 400 410 420 430 440 450  
\* \* \* \* \*  
GGCATGCCC ATATGCTCAG CCGGATACC TATGAGTGCA CCTGTCAAGT CCGGTTTACA GGTAAGGAGT GCCAATGGAC GGATGCCTGC  
G T C H M L S R D T Y E C T C Q V G F T G K E C Q W T D A C>  
460 470 480 490 500 510 520 530 540  
\* \* \* \* \*  
CTGTCTCATC CCTGTGCAAA TGGAAGTACC TGTACCACTG TGGCCAACCA GTTCTCCTGC AAATGCCCTCA CAGGCTTCAC AGGCAGAAA  
L S H P C A N G S T C T T V A N Q F S C K C L T G F T G Q K>  
550 560 570 580 590 600 610 620 630  
\* \* \* \* \*  
TGTGAGACTG ATGTCAATGA GTGTGACATT CCAGGACACT GCCAGCATGG TGGCACCTGC CTCAACCTGC CTGGTTCCTA CCAGTGCCAG  
C E T D V N E C D I P G H C Q H G G T C L N L P G S Y Q C Q>  
640 650 660 670 680 690 700 710 720  
\* \* \* \* \*  
TGCCTCAGG GCTTCACAGG CCAGTACTGT GACAGCCTGT ATGTGCCCTG TGCACCCTCA CCTTGTGTCA ATGGAGGCAC CTGTGGCAG  
C P Q G F T G Q Y C D S L Y V P C A P S P C V N G G T C R Q>  
730 740 750 760 770 780 790 800 810  
\* \* \* \* \*  
ACTGGTGACT TCACTTTTGA GTGCAACTGC CTTCCAGTT TTGAAGGGAG CACCTGTGAG AGGAATATTG ATGACTGCCC TAACCACAGG  
T G D F T F E C N C L P G F E G S T C E R N I D D C P N H R>

FIG.17A

820	830	840	850	860	870	880	890	900
* TGTCAGAATG	* GAGGGTTTG	* TGTGGATGG	* GTCAACACTT	* ACAACTGCCG	* CTGTCCCCCA	* CAATGGACAG	* GACAGTTCTG	* CACAGAGGAT
C Q N	G G V C	V D G	V N T	Y N C R	C P P	Q W T	G Q F C	T E D>
910	920	930	940	950	960	970	980	990
* GTGGATGAAT	* GCCTGCTGCA	* GCCCAATGCC	* TGTCAAATG	* GGGGCACCTG	* TGCCAACCGC	* AATGGAGGCT	* ATGGCTGTGT	* ATGTGTCAAC
V D E	C L L Q	P N A	C Q N	G G T C	A N R	N G G	Y G C V	C V N>
1000	1010	1020	1030	1040	1050	1060	1070	1080
* GGCTGGAGTG	* GAGATGACTG	* CAGTGAGAAC	* ATTGATGATT	* GTGCCTTCCG	* CTCCTGTACT	* CCAGGCTCCA	* CCTGCATCGA	* CCGTGTGGCC
G W S	G D D C	S E N	I D D	C A F A	S C T	P G S	T C I D	R V A>
1090	1100	1110	1120	1130	1140	1150	1160	1170
* TCCTTCTCTT	* GCATGTGCCC	* AGAGGGGAAG	* GCAGGTCTCC	* TGTGTCTCT	* GGATGATGCA	* TGCATCAGCA	* ATCCTTGCCA	* CAAGGGGGCA
S F S	C M C P	E G K	A G L	L C H L	D D A	C I S	N P C H	K G A>
1180	1190	1200	1210	1220	1230	1240	1250	1260
* CTGTGTGACA	* CCAACCCCT	* AAATGGGCAA	* TATATTGCA	* CCTGCCACACA	* AGGCTACAAA	* GGGGCTGACT	* GCACAGAAGA	* TGTGGATGAA
L C D	T N P L	N G Q	Y I C	T C P Q	G Y K	G A D	C T E D	V D E>
1270	1280	1290	1300	1310	1320	1330	1340	1350
* TGTGCCATGG	* CCAATAGCAA	* TCCTTGTGAG	* CATGCAGGAA	* AATGTGTGAA	* CACGGATGGC	* GCCTTCCACT	* GTCAGTGTCT	* GAAGGGTTAT
C A M	A N S N	P C E	H A G	K C V N	T D G	A F H	C E C L	K G Y>
1360	1370	1380	1390	1400	1410	1420	1430	1440
* GCAGGACCTC	* GTTGTGAGAT	* GGACATCAAT	* GAGTGCCATT	* CAGACCCCTG	* CCAGAATGAT	* GCTACCTGTC	* TGGATAAGAT	* TGGAGGCTTC
A G P	R C E M	D I N	E C H	S D P C	Q N D	A T C	L D K I	G G F>
1450	1460	1470	1480	1490	1500	1510	1520	1530
* ACATGTCTGT	* GCATGCCAGG	* TTTCAAAGGT	* GTGCATTGTC	* AATTAGAAAT	* AAATGAATGT	* CAGAGCAACC	* CTTGTGTGAA	* CAATGGGCAG
T C L	C M P G	F K G	V H C	E L E I	N E C	Q S N	P C V N	N G Q>
1540	1550	1560	1570	1580	1590	1600	1610	1620
* TGTGTGATA	* AAGTCAATCG	* TTTCCAGTGC	* CTGTGCTCCT	* CTGGTTTCAC	* TGGGCCAGTT	* TGCCAGATTG	* ATATTGATGA	* CTGTTCAGT
C V D	K V N R	F Q C	L C P	P G F T	G P V	C Q I	D I D D	C S S>

FIG.17B

1630	1640	1650	1660	1670	1680	1690	1700	1710
*	*	*	*	*	*	*	*	*
ACTCCGTGTC	TGAATGGGGC	AAAGTGTATC	GATCACCCGA	ATGGCTATGA	ATGCCAGTGT	GCCACAGGTT	TACTGGTGT	GTTGTGTGAC
T P C	L N G A	K C I	D H P	N G Y E	C Q C	A T G	F T G V	L C E>

1720	1730	1740	1750	1760	1770	1780	1790	1800
*	*	*	*	*	*	*	*	*
GAGAACATTG	ACAACTGTGA	CCCCGATCCT	TGCCACCATG	GTCAGTGTCA	GGATGGTATT	GATTCCTACA	CCTGCATCTG	CAATCCCCGG
E N I	D N C D	P D P	C H H	G Q C Q	D G I	D S Y	T C I C	N P G>

1810	1820	1830	1840	1850	1860	1870	1880	1890
*	*	*	*	*	*	*	*	*
TACATGGGCG	CCATCTGCAG	TGACCAGATT	GATGAATGTT	ACAGCAGCCC	TTGCCTGAAC	GATGGTCCCT	GCATTGACCT	GGTCAATGGC
Y M G	A I C S	D Q I	D E C	Y S S P	C L N	D G R	C I D L	V N G>

1900	1910	1920	1930	1940	1950	1960	1970	1980
*	*	*	*	*	*	*	*	*
TACCAGTGCA	ACTGCCAGCC	AGGCACGTCA	GGGGTTAATT	GTGAAATTAA	TTTTGATGAC	TGTGCAAGTA	ACCCTTGTAT	CCATGGAATC
Y Q C	N C Q P	G T S	G V N	C E I N	F D D	C A S	N P C I	H G I>

1990	2000	2010	2020	2030	2040	2050	2060	2070
*	*	*	*	*	*	*	*	*
TGTATGGATG	GCATTAATCG	CTACAGTTGT	GTCTGCTCAC	CAGGATTCAC	AGGGCAGAGA	TGTAACATTG	ACATTGATGA	GTGTGCCTCC
C M D	G I N R	Y S C	V C S	P G F T	G Q R	C N I	D I D E	C A S>

2080	2090	2100	2110	2120	2130	2140	2150	2160
*	*	*	*	*	*	*	*	*
AATCCCTGTC	GCAAGGGTGC	AACATGTATC	AACGGTGTGA	ATGGTTTCCG	CTGTATATGC	CCCCAGGGAC	CCCATCACCC	CAGCTGCTAC
N P C	R K G A	T C I	N G V	N G F R	C I C	P E G	P H H P	S C Y>

2170	2180	2190	2200	2210	2220	2230	2240	2250
*	*	*	*	*	*	*	*	*
TCACAGGTGA	ACGAATGCCT	GAGCAATCCC	TGCATCCATG	GAAACTGTAC	TGGAGGTCTC	AGTGGATATA	AGTGTCTCTG	TGATGCAGGC
S Q V	N E C L	S N P	C I H	G N C T	G G L	S G Y	K C L C	D A G>

2260	2270	2280	2290	2300	2310	2320	2330	2340
*	*	*	*	*	*	*	*	*
TGGTTGGCA	TCAACTGTGA	AGTGGACAAA	AATGAATGCC	TTTCGAATCC	ATGCCAGAAT	GGAGGAACTT	GTGACAATCT	GGTGAATGGA
W V G	I N C E	V D K	N E C	L S N P	C Q N	G G T	C D N L	V N G>

2350	2360	2370	2380	2390	2400	2410	2420	2430
*	*	*	*	*	*	*	*	*
TACAGGTGTA	CTTGCAAGAA	GGGCTTTAAA	GGCTATAACT	GCCAGGTGAA	TATTGATGAA	TGTGCCTCAA	ATCCATGCCT	GAACCAAGGA
Y R C	T C K F	G F K	G Y N	C Q V N	I D E	C A S	N P C L	N Q G>

FIG.17C

2440	2450	2460	2470	2480	2490	2500	2510	2520
*	*	*	*	*	*	*	*	*
ACCTGCTTTG	ATGACATAAG	TGGCTACACT	TGCCACTGTG	TGCTGCCATA	CACAGGCAAG	AATTGTCAGA	CAGTATTGGC	TCCCTGTTC
T C F	D D I S	G Y T	C H C	V L P Y	T G K	N C Q	T V L A	P C S>

2530	2540	2550	2560	2570	2580	2590	2600	2610
*	*	*	*	*	*	*	*	*
CCAAACCCTT	GTGAGAATGC	TGCTGTTTGC	AAAGAGTCAC	CAAATTTTGA	GAGTTATACT	TGCTTGTGTG	CTCCTGGCTG	GCAAGGTCAG
P N P	C E N A	A V C	K E S	P N F E	S Y T	C L C	A P G W	Q G Q>

2620	2630	2640	2650	2660	2670	2680	2690	2700
*	*	*	*	*	*	*	*	*
CGGTGTACCA	TTGACATTGA	CGAGTGTATC	TCCAAGCCCT	GCATGAACCA	TGGTCTCTGC	CATAACACCC	AGGGCAGCTA	CATGTGTGAA
R C T	I D I D	E C I	S K P	C M N H	G L C	H N T	Q G S Y	M C E>

2710	2720	2730	2740	2750	2760	2770	2780	2790
*	*	*	*	*	*	*	*	*
TGTCCACCAG	GCTTCAGTGG	TATGGACTGT	GAGGAGGACA	TTGATGACTG	CCTTGCCAAT	CCTTGCCAGA	ATGGAGGTTC	CTGTATGCAT
C P P	G F S G	M D C	E E D	I D D C	L A N	P C Q	N G G S	C M D>

2800	2810	2820	2830	2840	2850	2860	2870	2880
*	*	*	*	*	*	*	*	*
CGAGTGAATA	CTTTCTCCTG	CCTCTGCCTT	CCGGGTTTCA	CTGGGGATAA	GTGCCAGACA	GACATGAATG	AGTGTCTGAG	TGAACCTGT
G V N	T F S C	L C L	P G F	T G D K	C Q T	D M N	E C L S	E P C>

2890	2900	2910	2920	2930	2940	2950	2960	2970
*	*	*	*	*	*	*	*	*
AAGAATGGAG	GGACCTGCTC	TGACTACGTC	AACAGTTACA	CTTGCAAGTG	CCAGGCAGGA	TTTGATGGAG	TCCATTGTGA	GAACAACATC
K N G	G T C S	D Y V	N S Y	T C K C	Q A G	F D G	V H C E	N N I>

2980	2990	3000	3010	3020	3030	3040	3050	3060
*	*	*	*	*	*	*	*	*
AATGAGTGCA	CTGAGAGCTC	CTGTTTCAAT	GGTGGCACAT	GTGTTGATGG	GATTAAGTCC	TTCTCTTGCT	TGTGCCCTGT	GGGTTTCACT
N E C	T E S S	C F N	G G T	C V D G	I N S	F S C	L C P V	G F T>

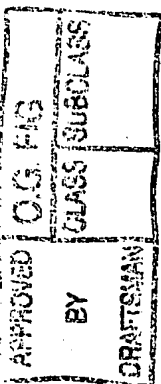
3070	3080	3090	3100	3110	3120	3130	3140	3150
*	*	*	*	*	*	*	*	*
GGATCCTTCT	GCCTCCATGA	GATCAATGAA	TGCAGCTCTC	ATCCATGCCT	GAATGAGGGA	ACGTGTGTTG	ATGGCCTGGG	TACCTACCGC
G S F	C L H E	I N E	C S S	H P C L	N E G	T C V	D G L G	T Y R>

3160	3170	3180	3190	3200	3210	3220	3230	3240
*	*	*	*	*	*	*	*	*
TGCAGCTGCC	CCCTGGGCTA	CACTGGGAAA	AACTGTCAGA	CCCTGGTGAA	TCTCTGCAGT	CGGTCTCCAT	GTA AAAACAA	AGGTACTTGT
C S C	P L G Y	T G K	N C Q	T L V N	L C S	R S P	C K N K	G T C>

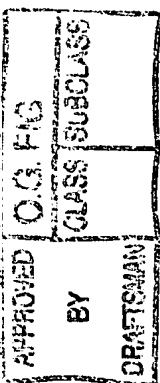
APPROVED BY DRAFTSMAN  
O.G. FIG. CLASS SUBCLASS

FIG.17D



3250 3260 3270 3280 3290 3300 3310 3320 3330  
\* \* \* \* \*  
GTTCAGAAAA AAGCAGAGTC CCACTGCCCTA TGTCCATCTG GATGGGCTGG TGCCTATTGT GACGTGCCCA ATGTCTCTTG TGACATAGCA  
V Q K K A E S Q C L C P S G W A G A Y C D V P N V S C D I A>  
3340 3350 3360 3370 3380 3390 3400 3410 3420  
\* \* \* \* \*  
GCCTCCAGGA GAGGTGTGCT TGTGAACAC TTGTGCCAGC ACTCAGGTGT CTGCATCAAT GCTGGCAACA CGCATTACTG TCAGTGCCCC  
A S R R G V L V E H L C Q H S G V C I N A G N T H Y C Q C P>  
3430 3440 3450 3460 3470 3480 3490 3500 3510  
\* \* \* \* \*  
CTGGGCTATA CTGGGAGCTA CTGTGAGGAG CAACTCGATG AGTGTGGCTC CAACCCCTGC CAGCACGGGG CAACATGCAG TGACTTCATT  
L G Y T G S Y C E E Q L D E C A S N P C Q H G A T C S D F I>  
3520 3530 3540 3550 3560 3570 3580 3590 3600  
\* \* \* \* \*  
GGTGGATACA GATGCCAGTG TGTCCACGGC TATCAGGGTG TCAACTGTGA GTATGAAGTG GATGAGTGCC AGAATCAGCC CTGCCAGAAT  
G G Y R C E C V P G Y Q G V N C E Y E V D E C Q N Q P C Q N>  
3610 3620 3630 3640 3650 3660 3670 3680 3690  
\* \* \* \* \*  
GGAGGCACCT GTATTGACCT TGTGAACCAT TTCAAGTGCT CTTGCCACCC AGGCACTCGG GGCCTACTCT GTGAAGAGAA CATTGATGAC  
G G T C I D L V N H F K C S C P P G T R G L L C E E N I D D>  
3700 3710 3720 3730 3740 3750 3760 3770 3780  
\* \* \* \* \*  
TGTGCCCCGG GTCCCCATTG CCTTAATGGT GGTCACTGCA TGGATAGGAT TGGAGGCTAC AGTTGTGGCT GCTTGCCCTGG CTTTGTGGG  
C A R G P H C L N G G Q C M D R I G G Y S C R C L P G F A G>  
3790 3800 3810 3820 3830 3840 3850 3860 3870  
\* \* \* \* \*  
GAGCGTTGTG AGGGAGACAT CAACGAGTGC CTCTCCAACC CCTGCAGCTC TGAGGGCAGC CTGGACTGTA TACAGCTCAC CAATGACTAC  
E R C E G D I N E C L S N P C S S E G S L D C I Q L T N D Y>  
3880 3890 3900 3910 3920 3930 3940 3950 3960  
\* \* \* \* \*  
CTGTGTGTTT GCCGTAGTGC CTTTACTGGC CGGCACTGTG AAACCTTCGT CGATGTGTGT CCCCAGATGC CCTGCCTGAA TGGAGGGACT  
L C V C R S A F T G R H C E T F V D V C P Q M P C L N G G T>  
3970 3980 3990 4000 4010 4020 4030 4040 4050  
\* \* \* \* \*  
TGTGCTGTGG CCACTAACAT GCCTGATGGT TTCATTGGCC GTTGTCCCC GGGATTTTCC GGGGCAAGGT GCCAGAGCAG CTGTGGACAA  
C A V A S N M P D G F I C R C P P G F S G A R C Q S S C G Q>

FIG.17E



4060 4070 4080 4090 4100 4110 4120 4130 4140  
\* \* \* \* \*  
GTGAAATGTA GGAAGGGGGA GCAGTGTGTG CACACCGCCT CTGGACCCCG CTGCTTCTGC CCCAGTCCCC GGGACTGCCA GTCAGGCTGT  
V K C R K G E Q C V H T A S G P R C F C P S P R D C E S G C>

4150 4160 4170 4180 4190 4200 4210 4220 4230  
\* \* \* \* \*  
GCCAGTAGCC CCTGCCAGCA CGGGGGCAGC TGCCACCCTC AGCGCCAGCC TCCTTATTAC TCCTGCCAGT GTGCCCCACC ATTCTCGGT  
A S S P C Q H G G S C H P Q R Q P P Y Y S C Q C A P P F S G>

4240 4250 4260 4270 4280 4290 4300 4310 4320  
\* \* \* \* \*  
AGCGGCTGTG AACTCTACAC GGCACCCCCC AGCACCCCTC CTGCCACCTG TCTGAGCCAG TATTGTGCCG ACAAAGCTCG GGATGGCGTC  
S R C E L Y T A P P S T P P A T C L S Q Y C A D K A R D G V>

4330 4340 4350 4360 4370 4380 4390 4400 4410  
\* \* \* \* \*  
TGTGATGAGG CCTGCAACAG CCATGCCTGC CAGTGGGATG GGGGTGACTG TTCTCTCACC ATGGAGAACC CCTGGGCCAA CTGCTCTCC  
C D E A C N S H A C Q W D G G D C S L T M E N P W A N C S S>

4420 4430 4440 4450 4460 4470 4480 4490 4500  
\* \* \* \* \*  
CCACTTCCT GCTGGGATTA TATCAACAAC CAGTGTGATG AGCTGTGCAA CACGGTCGAG TGCCTGTTTG ACAACTTTGA ATGCCAGGG  
P L P C W D Y I N N Q C D E L C N T V E C L F D N F E C Q G>

4510 4520 4530 4540 4550 4560 4570 4580 4590  
\* \* \* \* \*  
AACAGCAAGA CATGCAAGTA TGACAAATAC TGTGCAGACC ACTTCAAAGA CAACCACTGT AACCAGGGGT GCAACAGTGA GGAGTGTGTT  
N S K T C K Y D K Y C A D H F K D N H C N Q G C N S E E C G>

4600 4610 4620 4630 4640 4650 4660 4670 4680  
\* \* \* \* \*  
TGGGATGGGC TGGACTGTGC TGCTGACCAA CCTGAGAACC TGGCAGAAGG TACCCTGGTT ATTGTGGTAT TGATGCCACC TGAACAAC TG  
W D G L D C A A D Q P E N L A E G T L V I V V L M P P E Q L>

4690 4700 4710 4720 4730 4740 4750 4760 4770  
\* \* \* \* \*  
CTCCAGGATG CTCCAGCTT CTGCGGGCA CTGGGTACCC TGCTCCACAC CAACCTGCCG ATTAAGCGGG ACTCCAGGG GGAACATC  
L Q D A R S F L R A L G T L L H T N L R I K R D S Q G E L M>

4780 4790 4800 4810 4820 4830 4840 4850 4860  
\* \* \* \* \*  
GTGTACCCCT ATTATGGTGA GAAGTCAGCT GCTATGAAGA AACAGAGGAT GACACGCAGA TCCCTTCCTG GTGAACAAGA ACAGGAGGTG  
V Y P Y Y G E K S A A M K K Q R M T R R S L P G E Q E Q E V>

FIG.17F

U.S. Pat.	CLASS	SUBCLASS
APPROVED	BY	DRAFTSMAN

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4870      4880      4890      4900      4910      4920      4930      4940      4950
*         *         *         *         *         *         *         *         *
GCTGGCTCTA AAGTCTTTCT GGAAATTGAC AACCGCCAGT GTGTTCAAGA CTCAGACCAC TGCTTCAAGA ACACGGATGC AGCAGCAGCT
A G S K V F L E I D N R Q C V Q D S D H C F K N T D A A A A>

4960      4970      4980      4990      5000      5010      5020      5030      5040
*         *         *         *         *         *         *         *         *
CTCCTGGCCT CTCACGCCAT ACAGGGGACC CTGTCATACC CTCTTGTGTC TGTGCTCAGT GAATCCCTGA CTCCAGAACC CACTCAGCTC
L L A S H A I Q G T L S Y P L V S V V S E S L T P E R T Q L>

5050      5060      5070      5080      5090      5100      5110      5120      5130
*         *         *         *         *         *         *         *         *
CTCTATCTCC TTGCTGTGCG TGTGTGCATC ATTCTGTTA TTATTCTGCT GGGGTAATC ATGGCAAAC GAAAGCGTAA GCATGGCTCT
L Y L L A V A V V I I L F I I L L G V I M A K R K R K H G S>

5140      5150      5160      5170      5180      5190      5200      5210      5220
*         *         *         *         *         *         *         *         *
CTCTGGCTGC CTGAAGGTTT CACTCTTCGC CGAGATGCAA GCAATCACAA GCGTCGTGAG CCAGTGGGAC AGGATGCTGT GGGGCTGAAA
L W L P E G F T L R R D A S N H K R R E P V G Q D A V G L K>

5230      5240      5250      5260      5270      5280      5290      5300      5310
*         *         *         *         *         *         *         *         *
AATCTCTCAG TGCAAGTCTC AGAAGCTAAC CTAATTGGTA CTGGAACAAG TGAACACTGG GTCGATGATG AAGGGCCCCA GCCAAAGAAA
N L S V Q V S E A N L I G T G T S E H W V D D E G P Q P K K>

5320      5330      5340      5350      5360      5370      5380      5390      5400
*         *         *         *         *         *         *         *         *
GTAAAGGCTG AAGATGAGGC CTTACTCTCA GAAGAAGATG ACCCCATTGA TCGACGGCCA TGGACACAGC AGCACCTTGA AGCTGCAGAC
V K A E D E A L L S E E D D P I D R R P W T Q Q H L E A A D>

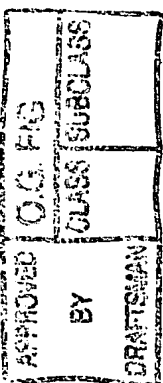
5410      5420      5430      5440      5450      5460      5470      5480      5490
*         *         *         *         *         *         *         *         *
ATCCGTAGGA CACCATCGCT GGCTCTCACC CCTCCTCAGG CAGAGCAGGA GGTGGATGTG TTAGATGTGA ATGTCCGTGG CCCAGATGGC
I R R T P S L A L T P P Q A E Q E V D V L D V N V R G P D G>

5500      5510      5520      5530      5540      5550      5560      5570      5580
*         *         *         *         *         *         *         *         *
TGCACCCCAT TGATGTGGC TTCTCTCCA GGAGGCAGCT CAGATTGAG TGATGAAGAT GAAGATGCAG AGGACTCTTC TGCTAACATC
C T P L M L A S L R G G S S D L S D E D E D A E D S S A N I>

5590      5600      5610      5620      5630      5640      5650      5660      5670
*         *         *         *         *         *         *         *         *
ATCACAGACT TGGTCTACCA GGGTGCCAGC CTCCAGGCCC AGACAGACCG GACTGGTGAG ATGGCCCTGC ACCTTGACGC CCGCTACTCA
I T D L V Y Q G A S L Q A Q T D R T G E M A L H L A A R Y S>

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FIG.17G



5680 5690 5700 5710 5720 5730 5740 5750 5760  
\* \* \* \* \*  
CGGGCTGATG CTGCCAAGCG TCTCCTGGAT GCAGGTGCAG ATGCCAATGC CCAGGACAAC ATGGGCGGCT GTCCACTCCA TGCTGCAGTG  
R A D A A K R L L D A G A D A N A Q D N M G R C P L H A A V>

5770 5780 5790 5800 5810 5820 5830 5840 5850  
\* \* \* \* \*  
GCAGCTGATG CCCAAGGTGT CTTCCAGATT CTGATTGCGA ACCGAGTAAC TGATCTAGAT GCCAGGATGA ATGATGGTAC TACACCCCTG  
A A D A Q G V F Q I L I R N R V T D L D A R M N D G T T P L>

5860 5870 5880 5890 5900 5910 5920 5930 5940  
\* \* \* \* \*  
ATCCTGGCTG CCCGCTGGC TGTGGAGCGA ATGGTGGCAG AACTGATCAA CTGCCAAGCG GATGTGAATG CACTGGATGA CCATGGAAAA  
I L A A R L A V E G M V A E L I N C Q A D V N A V D D H G K>

5950 5960 5970 5980 5990 6000 6010 6020 6030  
\* \* \* \* \*  
TCTGCTCTT ACTGGGCAGC TGCTGTCAAT AATGTGGAGG CAACTCTTT GTTGTGAAA AATGGGGCCA ACCGAGACAT GCAGGACAAC  
S A L H W A A A V N N V E A T L L L L K N G A N R D M Q D N>

6040 6050 6060 6070 6080 6090 6100 6110 6120  
\* \* \* \* \*  
AAGGAAGAGA CACCTCTGTT TCTTGCTGCC CGGGAGGGGA GCTATGAAGC AGCCAAGATC CTGTTAGACC ATTTTGCCAA TCGAGACATC  
K E E T P L F L A A R E G S Y E A A K I L L D H F A N R D I>

6130 6140 6150 6160 6170 6180 6190 6200 6210  
\* \* \* \* \*  
ACAGACCATA TGGATCGTCT TCCCCGGGAT GTGGCTCGGG ATCGCATGCA CCATGACATT GTGGCCCTTC TGGATGAATA CAATGTGACC  
T D H M D R L P R D V A R D R M H H D I V R L L D E Y N V T>

6220 6230 6240 6250 6260 6270 6280 6290 6300  
\* \* \* \* \*  
CCAAGCCCTC CAGGCACCGT GTTGACTTCT GCTCTCTCAC CTGTCATCTG TGGGCCCAAC AGATCTTTCC TCAGCCTGAA GCACACCCCA  
P S P P G T V L T S A L S P V I C G P N R S F L S L K H T P>

6310 6320 6340 6350 6360 6370 6380 6390 6400  
\* \* \* \* \*  
ATGGGCAAGA AGTCTAGACG GCCCAGTGCC AAGAGTACCA TGCCTACTAG CCTCCCTAAC CTTGCCAAGG AGGCAAAGGA TGCCAAGGT  
M G K K S R R P S A K S T M P T S L P N L A K E A K D A K G>

6400 6410 6420 6430 6440 6450 6460 6470 6480  
\* \* \* \* \*  
AGTAGGAGGA AGAAGTCTCT GAGTGAGAAG GTCCAAGTGT CTGAGAGTTC AGTAACTTTA TCCCCTGTTG ATTCCCTAGA ATCTCCTCAC  
S R R K K S L S E K V Q L S E S S V T L S P V D S L E S P H>

FIG.17H



6490	6500	6510	6520	6530	6540	6550	6560	6570
*	*	*	*	*	*	*	*	*
ACGTATGTTT	CCGACACCAC	ATCCTCTCCA	ATGATTACAT	CCCCTGGGAT	CTTACAGGCC	TCACCCAACC	CTATGTTGGC	CACTGCCGCC
T Y V	S D T T	S S P	M I T	S P G I	L Q A	S P N	P M L A	T A A>

6580	6590	6600	6610	6620	6630	6640	6650	6660
*	*	*	*	*	*	*	*	*
CCTCCTGCCC	CAGTCCATGC	CCAGCATGCA	CTATCTTTT	CTAACCTTCA	TGAAATGCAG	CCTTTGGCAC	ATGGGGCCAG	CACTGTGCTT
P P A	P V H A	Q H A	L S F	S N L H	E M Q	P L A	H G A S	T V L>

6670	6680	6690	6700	6710	6720	6730	6740	6750
*	*	*	*	*	*	*	*	*
CCCTCAGTGA	GCCAGTTGCT	ATCCCACCAC	CACATTGTGT	CTCCAGGCAG	TGGCAGTGCT	GGAAGCTTGA	GTAGGCTCCA	TCCAGTCCCA
P S V	S Q L L	S H H	H I V	S P G S	G S A	G S L	S R L H	P V P>

6760	6770	6780	6790	6800	6810	6820	6830	6840
*	*	*	*	*	*	*	*	*
GTCCACGAC	ATTGGATGAA	CCGCATGGAG	GTGAATGAGA	CCCAGTACAA	TGAGATGTTT	GGTATGGTCC	TGGCTCCAGC	TGAGGGCACC
V P A	D W M N	R M E	V N E	T Q Y N	E M F	G M V	L A P A	E G T>

6850	6860	6870	6880	6890	6900	6910	6920	6930
*	*	*	*	*	*	*	*	*
CATCCTGGCA	TAGCTCCCCA	GAGCAGGCCA	CCTGAAGGGA	AGCACATAAC	CACCCCTCGG	GAGCCCTTGC	CCCCATTGT	GACTTTCAG
H P G	I A P Q	S R P	P E G	K H I T	T P R	E P L	P P I V	T F Q>

6940	6950	6960	6970	6980	6990	7000	7010	7020
*	*	*	*	*	*	*	*	*
CTCATCCCTA	AAGGCAGTAT	TGCCCAACCA	GCGGGGGCTC	CCCAGCCTCA	GTCCACCTGC	CCTCCAGCTG	TTGCGGGCCC	CCTGCCCACC
L I P	K G S I	A Q P	A G A	P Q P Q	S T C	P P A	V A G P	L P T>

7030	7040	7050	7060	7070	7080	7090	7100	7110
*	*	*	*	*	*	*	*	*
ATGTACCAGA	TTCCAGAAAT	GGCCCCTTTG	CCCAGTGTGG	CTTTCCCCAC	TGCCATGATG	CCCCAGCAGG	ACGGGCAGGT	AGCTCAGACC
M Y Q	I P E M	A R L	P S V	A F P T	A M M	P Q Q	D G Q V	A Q T>

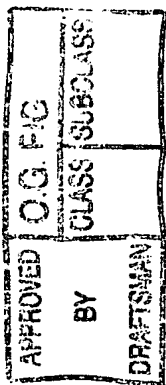
  

7120	7130	7140	7150	7160	7170	7180	7190	7200
*	*	*	*	*	*	*	*	*
ATTCTCCCAG	CCTATCATCC	TTTCCCAGCC	TCTGTGGGCA	AGTACCCAC	ACCCCTTCA	CAGCACAGTT	ATGCTTCCTC	AAATGCTGCT
I L P	A Y H P	F P A	S V G	K Y P T	P P S	Q H S	Y A S S	N A A>

7210	7220	7230	7240	7250	7260	7270	7280	7290
*	*	*	*	*	*	*	*	*
GAGCGAACAC	CCAGTCACAG	TGGTCACCTC	CAGGGTGAGC	ATCCCTACCT	GACACCATCC	CCAGAGTCTC	CTGACCAGTG	GTCAAGTTCA
E R T	P S H S	G H L	Q G E	H P Y L	T P S	P E S	P D Q W	S S S>

FIG.171



7300	7310	7320	7330	7340	7350	7360	7370	7380
*	*	*	*	*	*	*	*	*
TCACCCACT	CTGCTTCTGA	CTGGTCAGAT	GTGACCACCA	CCCCTACCCC	TGGGGGTGCT	GGAGGAGGTC	AGCGGGGACC	TGGGACACAC
S P H	S A S D	W S D	V T T	S P T P	G G A	G G G	Q R G P	G T H>
7390	7400	7410	7420	7430	7440	7450	7460	7470
*	*	*	*	*	*	*	*	*
ATGTCTGAGC	CACCACACAA	CAACATGCAG	GTTTATGCGT	GAGAGAGTCC	ACCTCCAGTG	TAGAGACATA	ACTGACTTTT	GTAATGCTG
M S E	P P H N	N M Q	V Y A>					
7480	7490	7500	7510	7520	7530	7540	7550	7560
*	*	*	*	*	*	*	*	*
CTGAGGAACA	AATGAAGGTC	ATCCGGGAGA	GAAATGAAGA	AATCTCTGGA	GCCAGCTTCT	AGAGGTAGGA	AAGAGAAGAT	GTTCTTATTC
7570	7580	7590	7600	7610	7620	7630	7640	7650
*	*	*	*	*	*	*	*	*
AGATAATGCA	AGAGAAGCAA	TTCGTCAGTT	TCACTGGGTA	TCTGCAAGGC	TTATTGATTA	TTCTAATCTA	ATAAGACAAG	TTTGTGAAA
7660	7670	7680	7690	7700	7710	7720	7730	7740
*	*	*	*	*	*	*	*	*
TGCAAGATGA	ATACAAGCCT	TGGGTCCATG	TTTACTCTCT	TCTATTGGA	GAATAAGATG	GATGCTTATT	GAAGCCCAGA	CATTCTTGCA
7750	7760	7770	7780	7790	7800	7810	7820	7830
*	*	*	*	*	*	*	*	*
GCTTGACTG	CATTTTAAGC	CCTGCAGGCT	TCTGCCATAT	CCATGAGAAG	ATTCTACACT	AGCGTCTCTG	TGGAATTAT	GCCCTGGAAT
7840	7850	7860	7870	7880	7890	7900	7910	7920
*	*	*	*	*	*	*	*	*
TCTGCCTGAA	TTGACCTAGC	CATCTCCTCC	TCCTTGACA	TTCTTTTGTC	TTCAATTGGT	GCTTTTGGTT	TTGCACCTCT	CCGTGATTGT
7930	7940	7950	7960	7970	7980	7990	8000	8010
*	*	*	*	*	*	*	*	*
AGCCCTACCA	GCATGTTATA	GGGCAAGACC	TTTGTGCTTT	TGATCATTCT	GGCCCATGAA	AGCAACTTTG	GTCTCCTTTC	CCCTCCTGTC
8020	8030	8040	8050	8060	8070	8080	8090	8100
*	*	*	*	*	*	*	*	*
TTCCCGGTAT	CCCTTGAGCT	CTCACAAGGT	TTACTTTGGT	ATGTTTCTCA	GCACAAACCT	TTCAAGTATG	TTGTTTCTTT	GGAAAATGGA
8110	8120	8130	8140	8150	8160	8170	8180	8190
*	*	*	*	*	*	*	*	*
CATACTGTAT	TGTGTTCTCC	TGCATATATC	ATTCTTGAG	AGAGAAGGGG	AGAAGAATAC	TTTTCTTCAA	CAAATTTTGG	GGGCAGGAGA
8200	8210	8220	8230	8240	8250	8260	8270	8280
*	*	*	*	*	*	*	*	*
TCCCTTCAAG	AGGCTGCACC	TTAATTTTTC	TTGTCTGTGT	GCAGGTCTTC	ATATAAACTT	TACCAGGAAG	AAGGGTGTA	GTTTGTGT

FIG.17J

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 BY  
 DRAFTSMAN  
 CLASS SUBCLASS

8290	8300	8310	8320	8330	8340	8350	8360	8370
*	*	*	*	*	*	*	*	*
TTTCTGTGTA	TGGCCTGGT	CAGTGAAAG	TTTTATCCTT	GATAGTCTAG	TTACTATGAC	CCTCCCCACT	TTTTTAAAC	CAGAAAAAGG
8380	8390	8400	8410	8420	8430	8440	8450	8460
*	*	*	*	*	*	*	*	*
TTTGAATGT	TGGAATGACC	AAGACACAAG	TTAACTCGTG	CAAGAGCCAG	TTACCCACCC	ACAGGTCCCC	CTACTTCCTG	CCAAGCATTG
8470	8480	8490	8500	8510	8520	8530	8540	8550
*	*	*	*	*	*	*	*	*
CATTGACTGC	CTGTATGGAA	CACATTGTG	CCAGATCTGA	GCATTCTAGG	CCTGTTTCAC	TCACTCACCC	AGCATATGAA	ACTAGTCTTA
8560	8570	8580	8590	8600	8610	8620	8630	8640
*	*	*	*	*	*	*	*	*
ACTGTTGAGC	CTTTCCITTC	ATATCCACAG	AAGACACTGT	CTCAAATGTT	GTACCCITTC	CATTTAGGAC	TGAACITTC	TTAGCCCAAG
8650	8660	8670	8680	8690	8700	8710	8720	8730
*	*	*	*	*	*	*	*	*
GGACCCAGTG	ACAGTTGTCT	TCCGTTTGTG	AGATGATCAG	TCTCTACTGA	TTATCTTGCT	GCTTAAAGGC	CTGCTACCA	ATCTTTCTTT
8740	8750	8760	8770	8780	8790	8800	8810	8820
*	*	*	*	*	*	*	*	*
CACACCGTGT	GGTCCGTGTT	ACTGGTATAC	CCAGTATGTT	CTCACTGAAG	ACATGGACTT	TATATGTTCA	AGTGCAGGAA	TTGGAAGTT
8830	8840	8850	8860	8870	8880	8890	8900	8910
*	*	*	*	*	*	*	*	*
GGACTTGTTT	TCTATGATCC	AAAACAGCCC	TATAAGAAGG	TTGGAAAAGG	AGGAACTATA	TAGCAGCCTT	TGCTATTTTC	TGCTACCATT
8920	8930	8940	8950	8960	8970	8980	8990	9000
*	*	*	*	*	*	*	*	*
TCTTTTCCTC	TGAAGCGGCC	ATGACATTCC	CTTTGGCAAC	TAACGTAGAA	ACTCAACAGA	ACATTTTCCT	TTCCTAGAGT	CACCTTTTAG
9010	9020	9030	9040	9050	9060	9070	9080	9090
*	*	*	*	*	*	*	*	*
ATGATAATGG	ACAACTATAG	ACTTGCTCAT	TGTTGAGACT	GATTGCCCCI	CACCTGAATC	CACTCTCTGT	ATTCATGCTC	TTGGCAATTT
9100	9110	9120	9130	9140	9150	9160	9170	9180
*	*	*	*	*	*	*	*	*
CTTTGACTTT	CTTTTAAGGG	CAGAAGCATT	TTAGTTAATT	GTAGATAAAG	AATAGTTTTT	TTCTCTTCT	CCTTGGGCCA	GTTAATAATT
9190	9200	9210	9220	9230	9240	9250	9260	9270
*	*	*	*	*	*	*	*	*
GGTCCATGGC	TACACTGCAA	CTTCCGTCCA	GTGCTGTGAT	GCCCATGACA	CCTGCAAAAT	AAGTTCTGCC	TGGGCATTTT	GTAGATATTA

FIG.17K

APPROVED	O. G. P. 3
BY	CLASS SUBCLASS
DRAFTSMAN	

9280	9290	9300	9310	9320	9330	9340	9350	9360
*	*	*	*	*	*	*	*	*
ACAGGTGAAT	TCCCGACTCT	TTTGTTTGA	ATGACAGTTC	TCATTCCCTC	TATGGCTGCA	AGTATGCATC	AGTGCTTCCC	ACTTACCTGA
9370	9380	9390	9400	9410	9420	9430	9440	9450
*	*	*	*	*	*	*	*	*
TTTGCTGTCT	GGTGGCCCCA	TATGGAAACC	CTGCGTGTCT	GTTGCCATAA	TAGTTTACAA	ATGGTTTTTT	CAGTCTTATC	CAAATTTATT
9460	9470	9480	9490	9500	9510	9520	9530	9540
*	*	*	*	*	*	*	*	*
GAACCAACAA	AAATAATTAC	TTCTGCCCTG	AGATAAGCAG	ATTAAGTTTG	TTCATTCTCT	GCTTTATTCT	CTCCATGTGG	CAACATTCTG
9550	9560	9570	9580	9590	9600	9610	9620	9630
*	*	*	*	*	*	*	*	*
TCAGCCTCTT	TCATAGTGTG	CAAACATTTT	ATCATTCTAA	ATGGTGACTC	TCTGCCCTTG	GACCCATTTA	TTATTCACAG	ATGGGGAGAA
9640	9650	9660	9670	9680	9690	9700	9710	9720
*	*	*	*	*	*	*	*	*
CCTATCTGCA	TGGACCCTCA	CCATCCTCTG	TGCAGCACAC	ACAGTGCAGG	GAGCCAGTGG	CGATGGCGAT	GACTTTCTTC	CCCTGGGAAT

TCC

FIG.17L